

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU033119\
 Data File : VU030566.D
 Acq On : 30 Mar 2019 09:54
 Operator : JC/SP
 Sample : VSTDIC0.5
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 4/5/2019 2:37:51 PM

Quant Time: Mar 31 00:51:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U033119DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Sun Mar 31 00:38:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	51535	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	26782	1.41	ug/l	0.00
Spiked Amount 1.000			Recovery	=	141.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	16712	0.80	ug/l	0.00
Spiked Amount 1.000			Recovery	=	80.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.20	85	11857	0.605	ug/l	98
3) Chloromethane	1.32	50	17563	0.782	ug/l	100
4) Vinyl Chloride	1.40	62	12850	0.659	ug/l	92
5) Bromomethane	1.63	94	7050	0.663	ug/l	85
6) Chloroethane	1.70	64	9984	0.894	ug/l	89
7) Trichlorofluoromethane	1.88	101	15026	0.611	ug/l	94
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	7901	0.600	ug/l	98
9) 1,1-Dichloroethene	2.28	96	7256	0.555	ug/l	89
10) Iodomethane	2.41	142	5414	0.482	ug/l	91
11) Allyl Chloride	2.59	41	16443	0.812	ug/l	95
12) Acrylonitrile	2.94	53	4839	1.628	ug/l	91
13) Acetone	2.33	43	11733	4.463	ug/l	96
14) Carbon Disulfide	2.47	76	29550	0.643	ug/l	98
15) Methylene Chloride	2.69	84	11177	0.713	ug/l	88
16) trans-1,2-Dichloroethene	2.97	96	9072	0.604	ug/l	94
17) 1,1-Dichloroethane	3.44	63	18265	0.694	ug/l	97
18) 2-Butanone	4.30	43	12797	3.509	ug/l	94
19) Cyclohexane	4.98	56	14000m	0.618	ug/l	
20) Methylcyclohexane	6.41	83	11886	0.497	ug/l	95
21) 2,2-Dichloropropane	4.22	77	13321	0.610	ug/l	100
22) cis-1,2-Dichloroethene	4.22	96	8340	0.501	ug/l	93
23) Diethyl Ether	2.10	59	6981	0.683	ug/l #	84
24) tert-Butyl Alcohol	2.86	59	7237	6.634	ug/l	97
25) Methyl tert-Butyl Ether	3.00	73	20173	0.594	ug/l	99
26) Bromochloromethane	4.55	128	3550	0.496	ug/l	95
27) Chloroform	4.67	83	15711	0.575	ug/l	98
28) 1,1,1-Trichloroethane	4.90	97	13544	0.607	ug/l	96
29) 1,1-Dichloropropene	5.13	75	11649	0.575	ug/l	95
30) Carbon Tetrachloride	5.13	117	11044	0.559	ug/l	97
31) Isopropyl Ether	3.58	45	26641	0.692	ug/l	94
32) Ethyl-t-butyl ether	4.07	59	20539	0.576	ug/l	97
33) Tert-Amyl methyl ether	5.58	73	15147	0.473	ug/l	98
34) Propionitrile	4.36	54	2864	2.833	ug/l #	74
35) Benzene	5.39	78	33254	0.559	ug/l	96
36) 1,2-Dichloroethane	5.41	62	11125	0.680	ug/l	99
37) Trichloroethene	6.18	130	8043	0.485	ug/l	97
38) 1,2-Dichloropropane	6.43	63	9892	0.643	ug/l	89
39) Methacrylonitrile	4.56	41	2794	0.621	ug/l #	91
40) Methyl acrylate	4.45	55	3366	0.492	ug/l #	76
41) Tetrahydrofuran	4.67	42	3112	1.274	ug/l #	65
42) 1-Chlorobutane	5.06	56	16984	0.619	ug/l	93

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Manual Integrations
 APPROVED

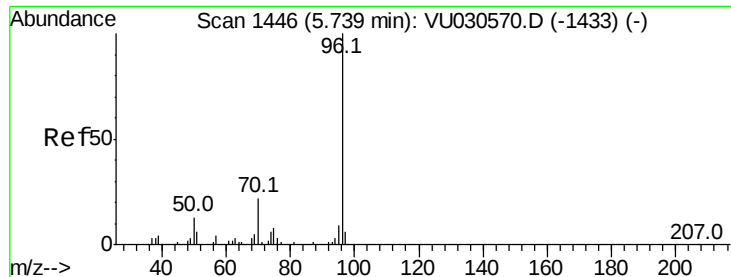
MMDadoda
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Quant Time: Mar 31 00:51:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U033119DW.M
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 Response via : Initial Calibration

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

43) Dibromomethane	6.56	93	4264	0.547	ug/l	96
44) Bromodichloromethane	6.76	83	11344	0.602	ug/l	94
45) 4-Methyl-2-Pentanone	7.47	43	26833	3.265	ug/l	93
46) t-1,4-Dichloro-2-butene	10.51	75	3198m	1.062	ug/l	
47) Methyl methacrylate	6.64	69	6045	0.915	ug/l	92
48) Ethyl methacrylate	8.04	69	5178	0.418	ug/l	95
49) Toluene	7.64	92	17340	0.490	ug/l	98
50) t-1,3-Dichloropropene	7.89	75	8479	0.505	ug/l #	87
51) cis-1,3-Dichloropropene	7.27	75	11240	0.537	ug/l	99
52) 1,1,2-Trichloroethane	8.07	97	5806	0.532	ug/l	95
53) 1,3-Dichloropropane	8.24	76	10762	0.580	ug/l	100
54) 2-Hexanone	8.38	43	22010	3.756	ug/l	88
55) Dibromochloromethane	8.48	129	6250	0.481	ug/l	93
56) 1,2-Dibromoethane	8.59	107	5406	0.520	ug/l	98
58) Tetrachloroethene	8.22	164	7501	0.499	ug/l	98
59) Chlorobenzene	9.12	112	20507	0.512	ug/l	95
60) 1,1,1,2-Tetrachloroethane	9.21	131	6840	0.487	ug/l	99
61) Pentachloroethane	11.10	117	5613	0.513	ug/l	97
62) Hexachloroethane	12.14	117	4661	0.435	ug/l	92
63) Ethyl Benzene	9.25	91	30625	0.459	ug/l	97
64) m/p-Xylenes	9.37	106	21709	0.842	ug/l	89
65) o-Xylene	9.78	106	10727	0.424	ug/l	94
66) Styrene	9.79	104	16177	0.387	ug/l	97
67) Bromoform	9.95	173	3612	0.491	ug/l #	96
69) Isopropylbenzene	10.16	105	29153	0.438	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.45	83	7561	0.553	ug/l	98
71) 1,2,3-Trichloropropane	10.49	75	6167m	0.622	ug/l	
72) Bromobenzene	10.45	156	7374	0.432	ug/l	77
73) n-propylbenzene	10.59	120	7129	0.382	ug/l	98
74) 2-Chlorotoluene	10.66	126	6367	0.388	ug/l	85
75) 1,3,5-Trimethylbenzene	10.77	105	21334	0.378	ug/l	100
76) 4-Chlorotoluene	10.77	126	6799	0.408	ug/l	94
77) tert-Butylbenzene	11.10	119	21728	0.395	ug/l	97
78) 1,2,4-Trimethylbenzene	11.15	105	22557	0.394	ug/l	91
79) sec-Butylbenzene	11.32	105	29640	0.402	ug/l	97
81) p-Isopropyltoluene	11.47	119	21059	0.345	ug/l	96
82) 1,3-Dichlorobenzene	11.42	146	15513	0.451	ug/l	98
83) 1,4-Dichlorobenzene	11.51	146	14166	0.409	ug/l	93
84) n-Butylbenzene	11.89	91	20911	0.364	ug/l	94
85) 1,2-Dichlorobenzene	11.88	146	15532	0.484	ug/l	99
86) 1,2-Dibromo-3-Chloropropan	12.66	75	1003	0.510	ug/l #	80
87) 1,2,4-Trichlorobenzene	13.50	180	6515	0.290	ug/l	99
88) Hexachlorobutadiene	13.69	225	5498	0.442	ug/l	96
89) Naphthalene	13.75	128	8129	0.230	ug/l	94
90) 1,2,3-Trichlorobenzene	13.99	180	6589	0.322	ug/l	97

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU030566.D

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Instrument :

MSVOA_U

ClientSampleId :

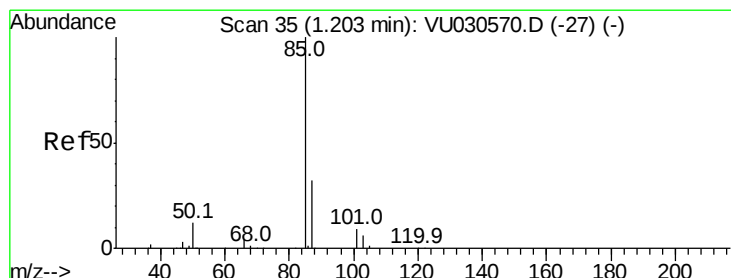
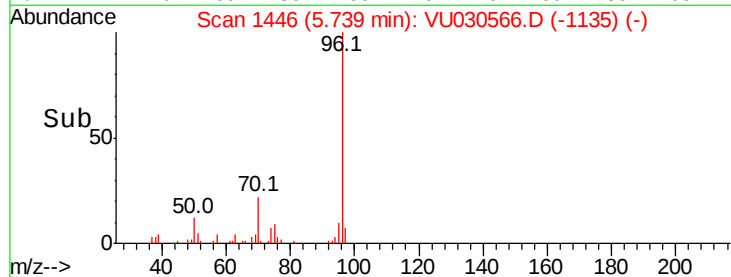
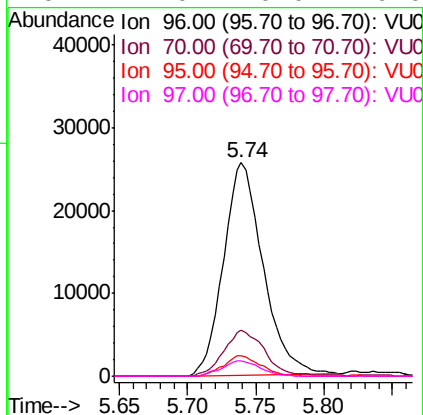
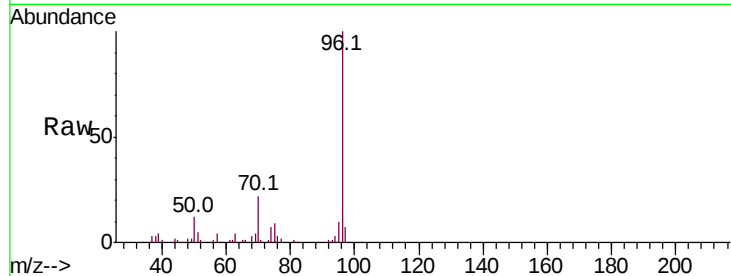
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
96	100			
70	21.4	15.6	23.4	
95	9.2	7.3	10.9	
97	7.0	0.0	0.0	

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.605 ug/l

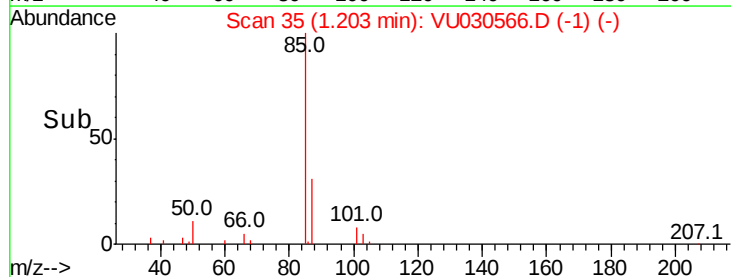
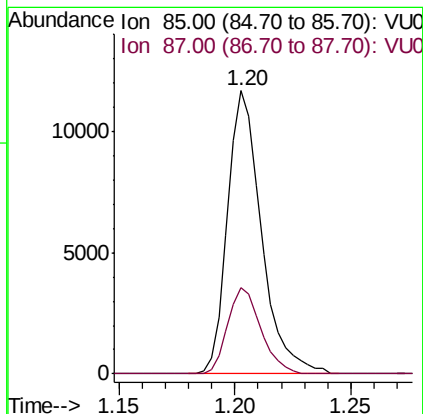
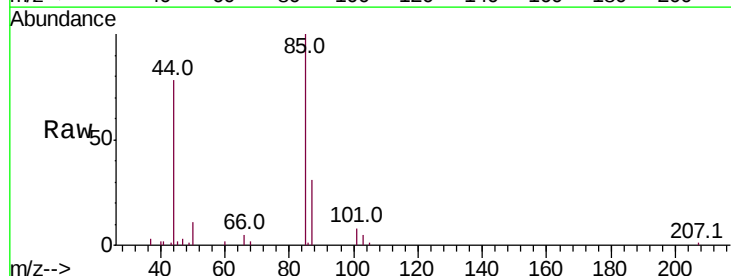
RT: 1.20 min Scan# 35

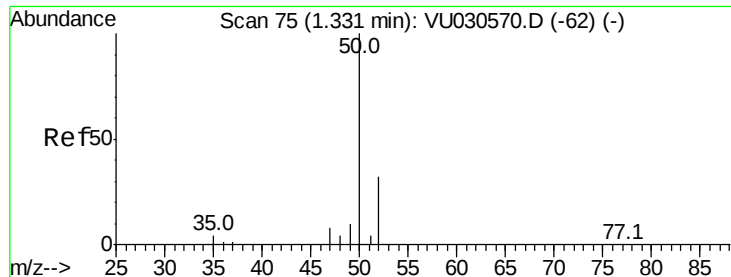
Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Tgt Ion	Ion	Ratio	Lower	Upper
85	100			
87	30.6	15.9	47.6	





#3

Chloromethane

Concen: 0.782 ug/l

RT: 1.32 min Scan# 73

Delta R.T. -0.01 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 50 Resp: 17563

Ion Ratio Lower Upper

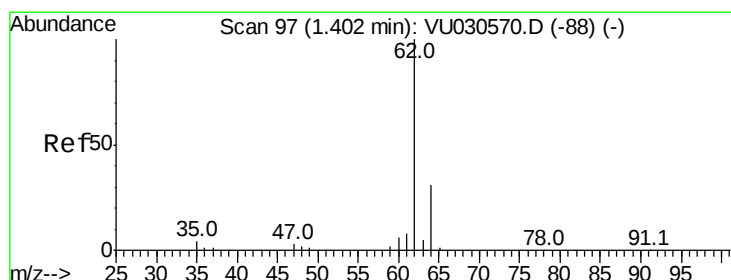
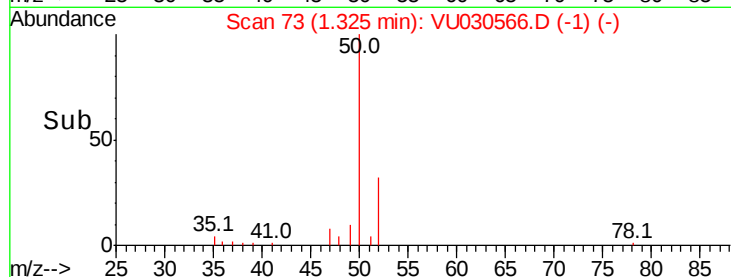
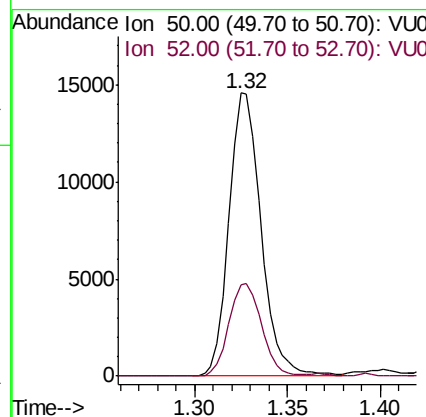
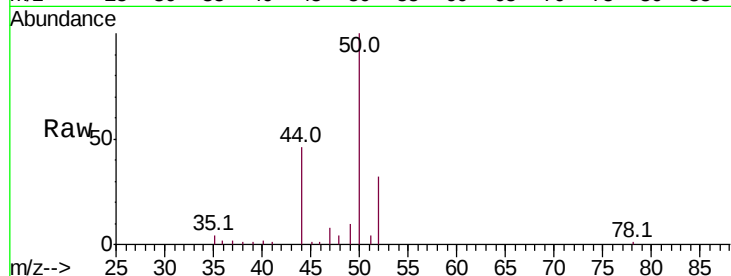
50 100

52 32.4 25.8 38.8

Manual Integrations
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#4

Vinyl Chloride

Concen: 0.659 ug/l

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU030566.D

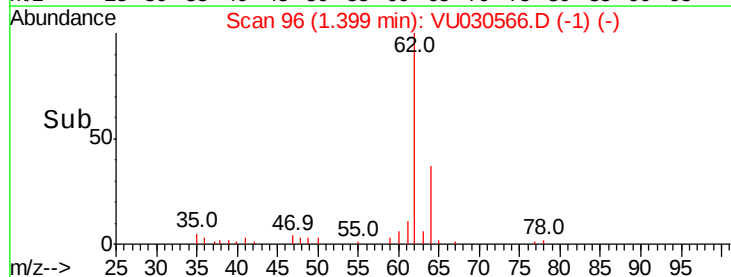
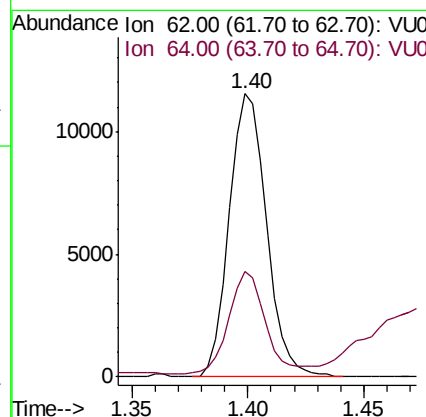
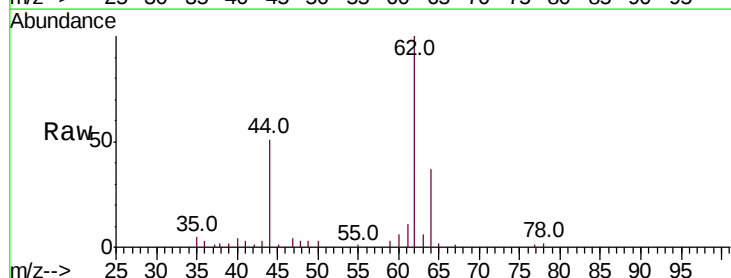
Acq: 30 Mar 2019 09:54

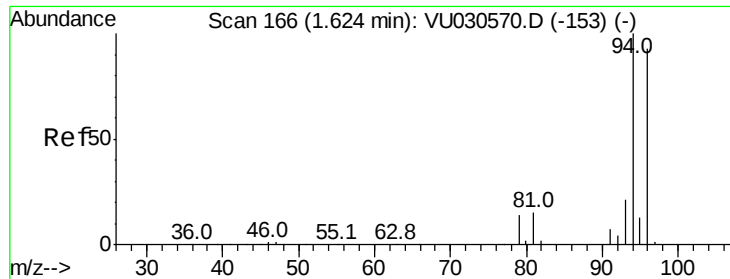
Tgt Ion: 62 Resp: 12850

Ion Ratio Lower Upper

62 100

64 35.9 25.1 37.7





#5

Bromomethane

Concen: 0.663 ug/l

RT: 1.63 min Scan# 168

Delta R.T. 0.01 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 94 Resp: 7050

Ion Ratio Lower Upper

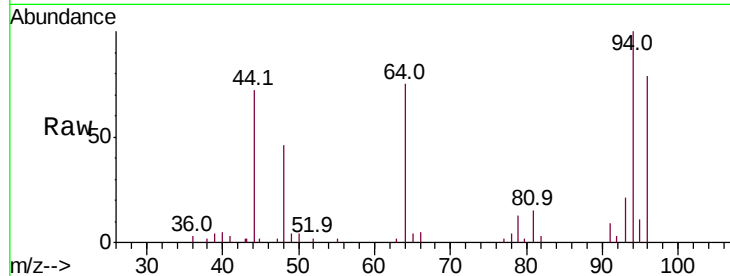
94 100

96 79.3 74.8 112.2

Manual Integrations
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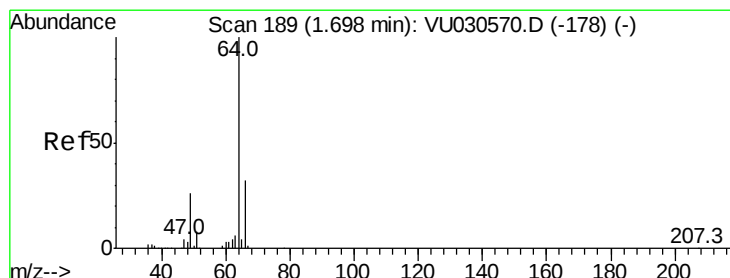
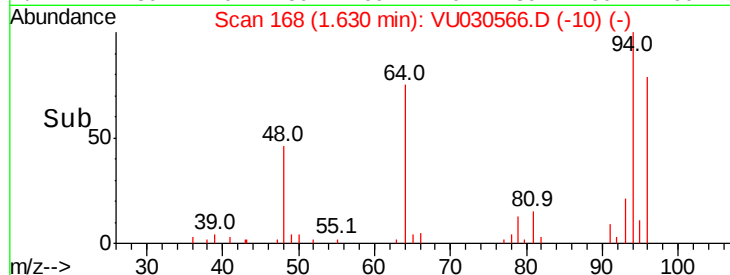
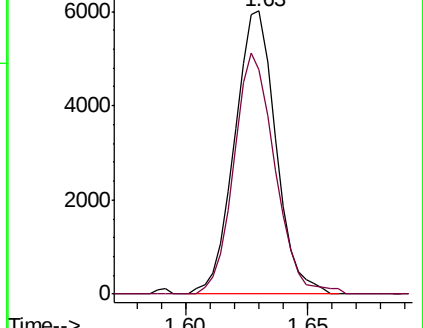
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Abundance Ion 94.00 (93.70 to 94.70): VU030566.D (-10) (-)

Ion 96.00 (95.70 to 96.70): VU030566.D (-10) (-)



#6

Chloroethane

Concen: 0.894 ug/l

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU030566.D

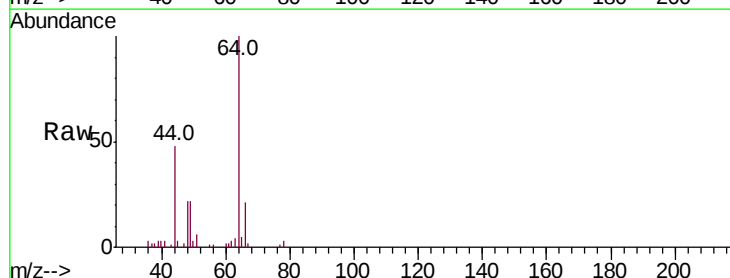
Acq: 30 Mar 2019 09:54

Tgt Ion: 64 Resp: 9984

Ion Ratio Lower Upper

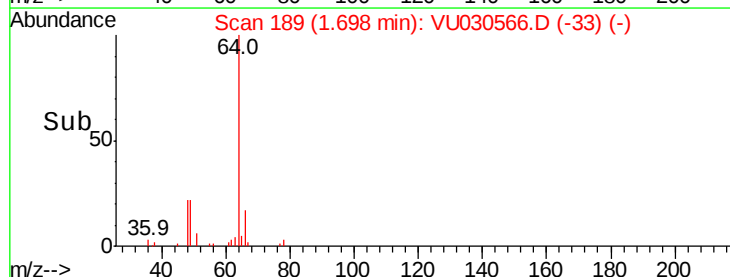
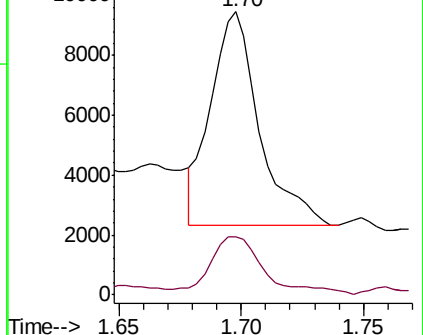
64 100

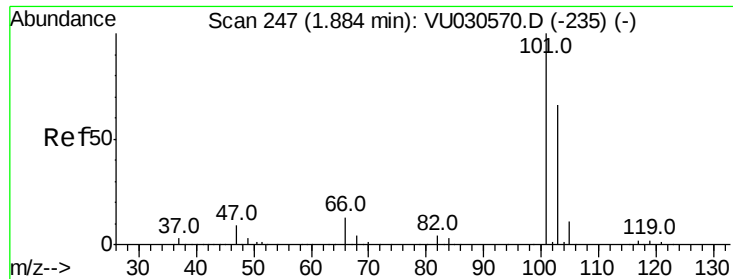
66 25.5 25.5 38.3



Abundance Ion 64.00 (63.70 to 64.70): VU030566.D (-33) (-)

Ion 66.00 (65.70 to 66.70): VU030566.D (-33) (-)





#7

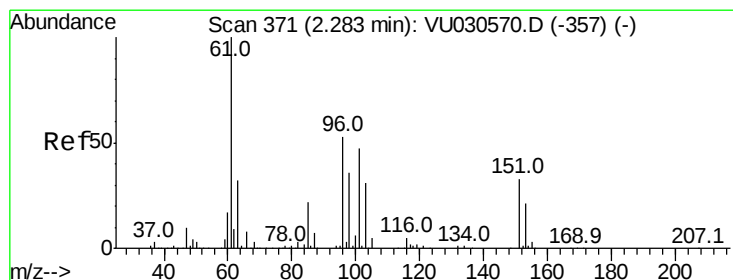
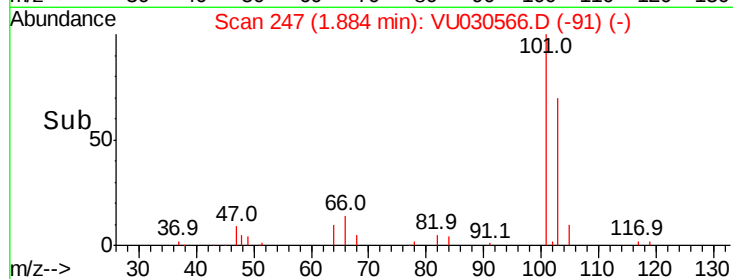
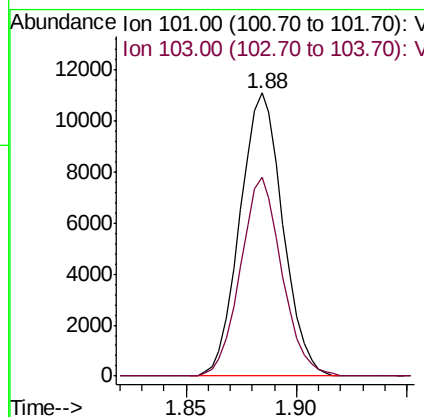
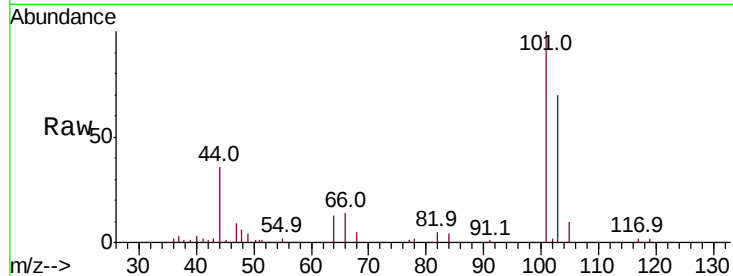
Trichlorofluoromethane
 Concen: 0.611 ug/l
 RT: 1.88 min Scan# 247
 Delta R.T. 0.00 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Instrument :
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 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	70.3	52.6	79.0

Manual Integrations
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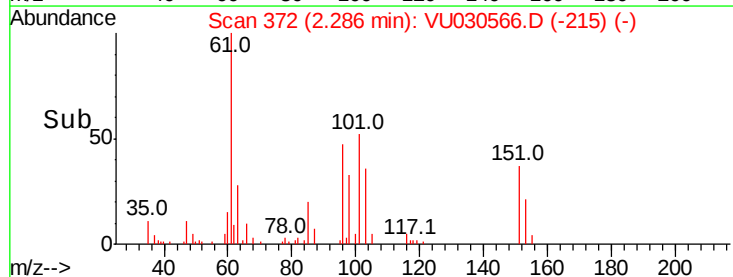
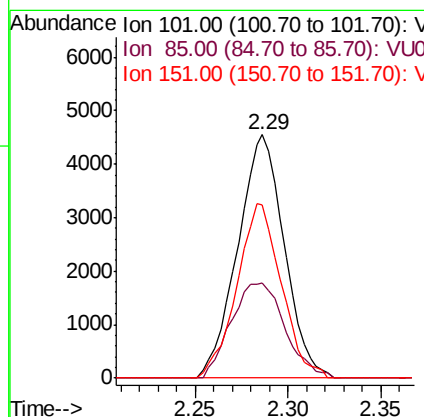
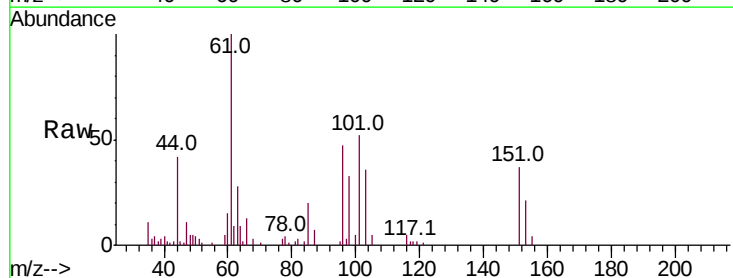
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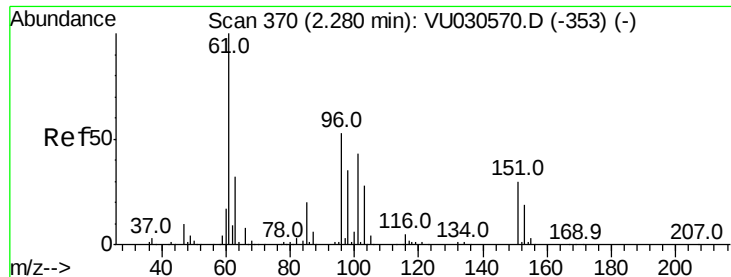


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.600 ug/l
 RT: 2.29 min Scan# 372
 Delta R.T. 0.00 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Tgt Ion	Ratio	Lower	Upper
101	100		
85	45.2	36.5	54.7
151	68.6	56.5	84.7





#9

1,1-Dichloroethene

Concen: 0.555 ug/l

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

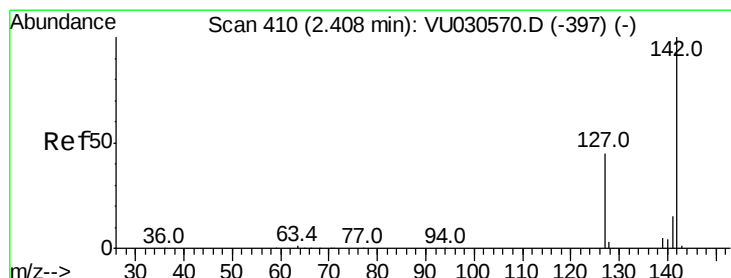
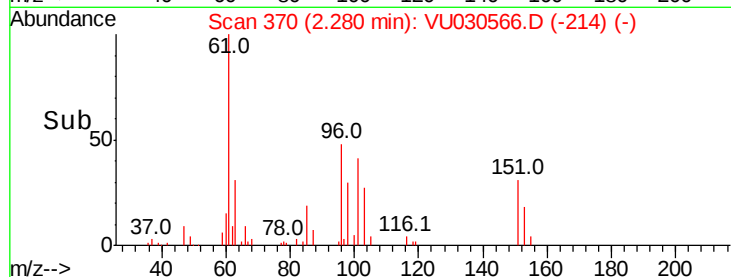
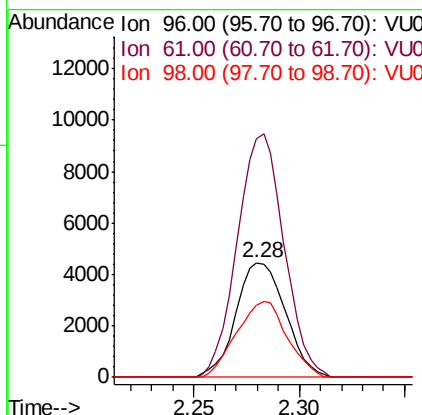
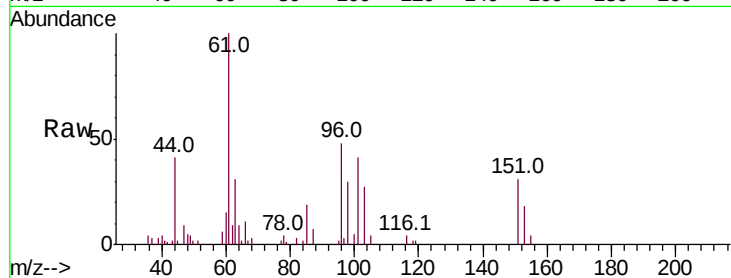
VSTDIC0.5

Tot Ion:	96	Resp:	7256
Ion	Ratio	Lower	Upper
96	100		
61	208.2	0.0	567.0
98	63.2	0.0	132.2

Manual Integrations
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#10

Iodomethane

Concen: 0.482 ug/l

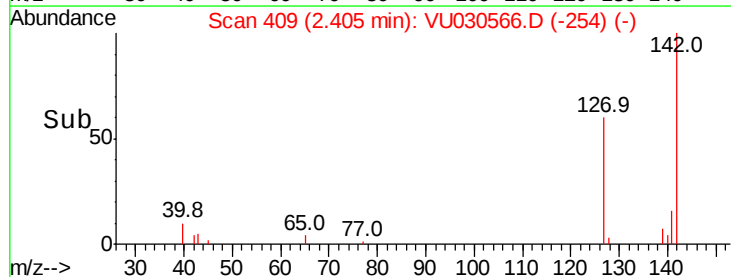
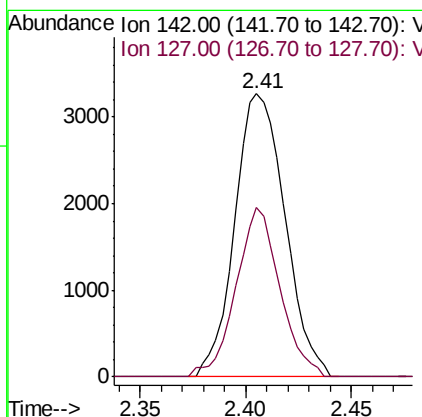
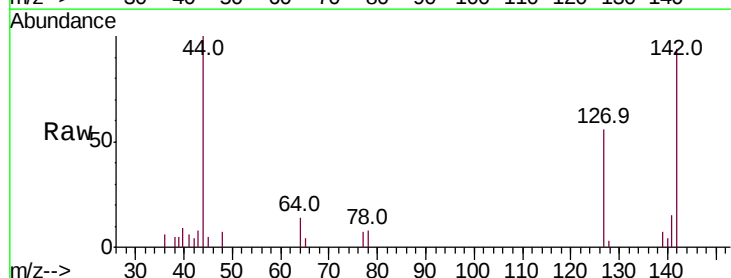
RT: 2.41 min Scan# 409

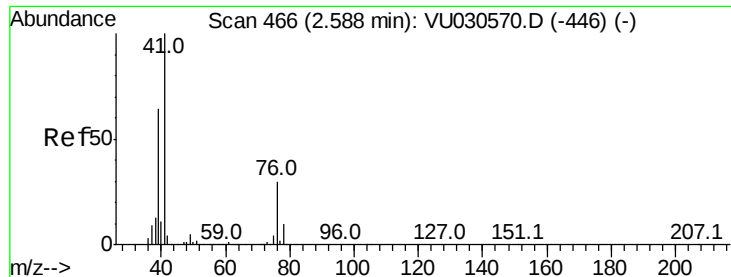
Delta R.T. -0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Tgt Ion:	142	Resp:	5414
Ion	Ratio	Lower	Upper
142	100		
127	52.1	36.8	55.2





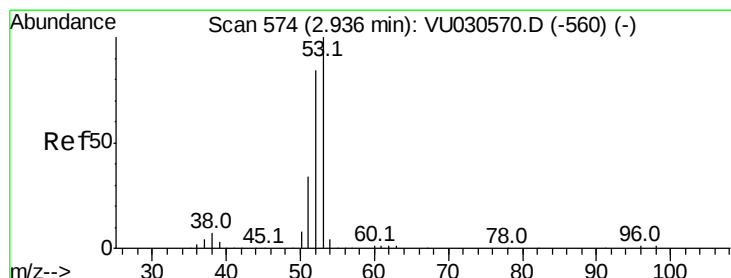
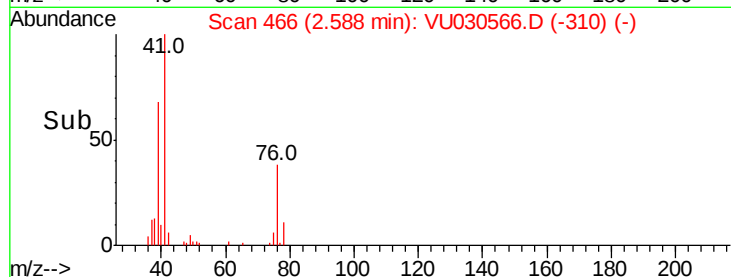
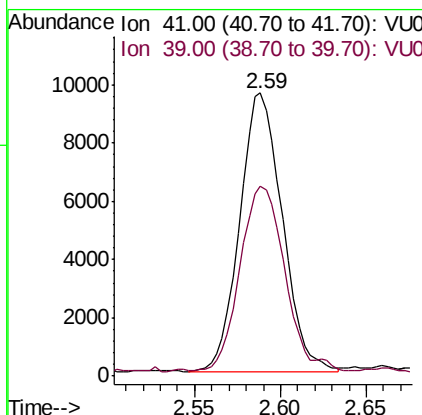
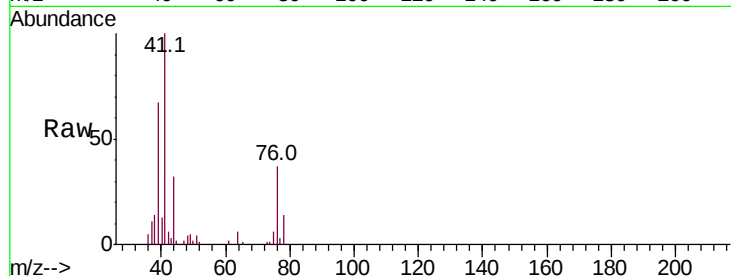
#11
Allvl Chloride
Concen: 0.812 ug/l
RT: 2.59 min Scan# 466
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampled :
VSTDIC0.5

Tot Ion: 41 Resp: 16443
Ion Ratio Lower Upper
41 100
39 69.0 51.8 77.6

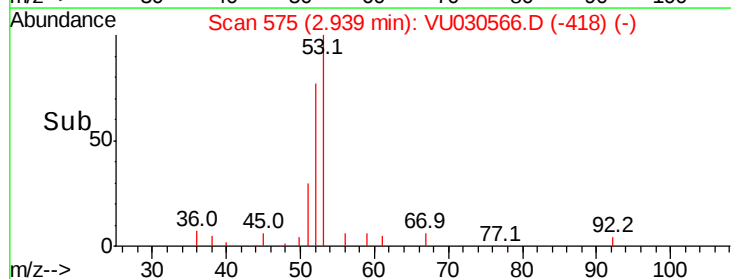
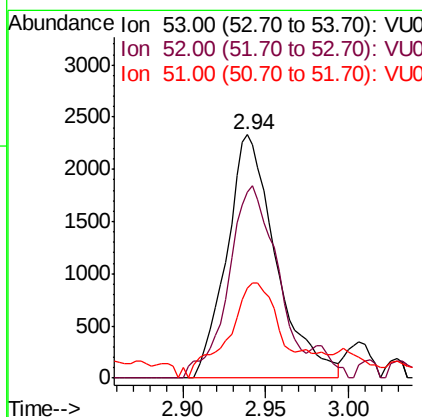
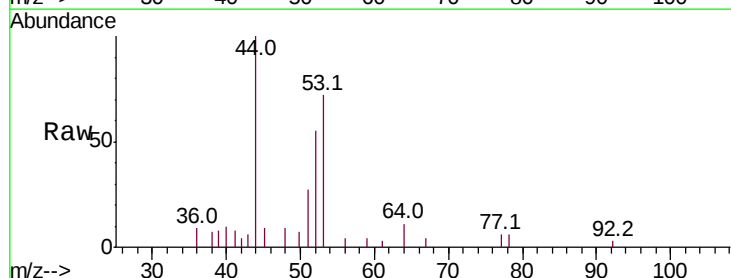
Manual Integrations
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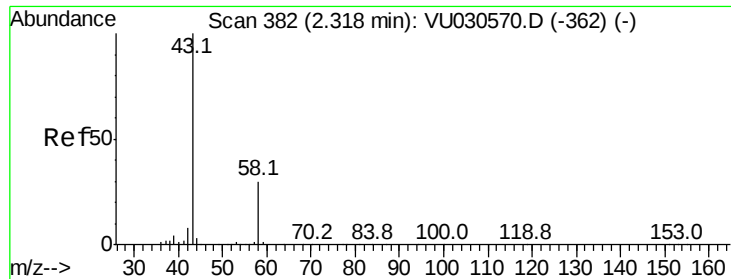
MMDadoda
4/5/2019 2:37:51 PM



#12
Acrylonitrile
Concen: 1.628 ug/l
RT: 2.94 min Scan# 575
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion: 53 Resp: 4839
Ion Ratio Lower Upper
53 100
52 77.6 69.1 103.7
51 38.9 27.9 41.9





#13

Acetone

Concen: 4.463 ug/l

RT: 2.33 min Scan# 387

Delta R.T. 0.02 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 11733

Ion Ratio Lower Upper

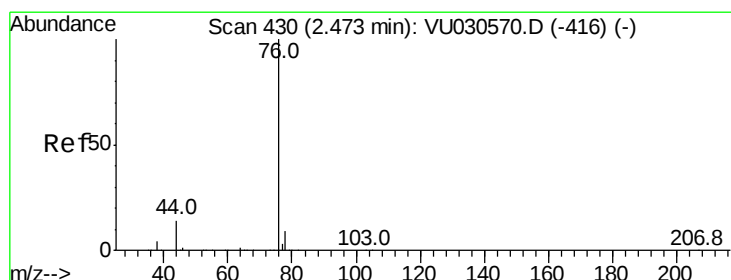
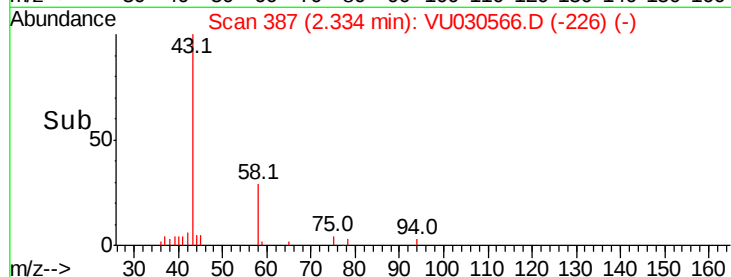
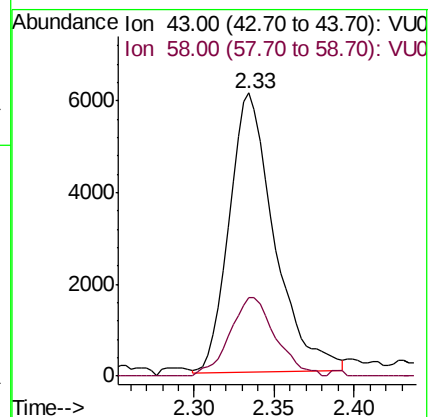
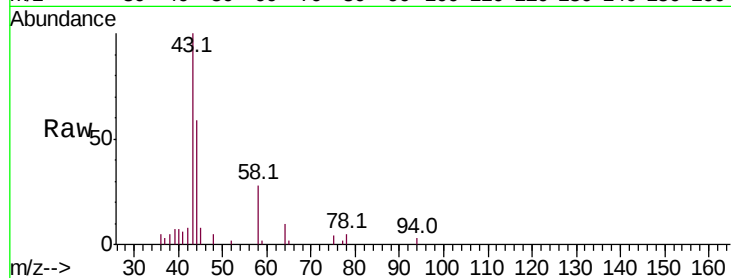
43 100

58 28.4 24.2 36.4

Manual Integrations
APPROVED

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#14

Carbon Disulfide

Concen: 0.643 ug/l

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU030566.D

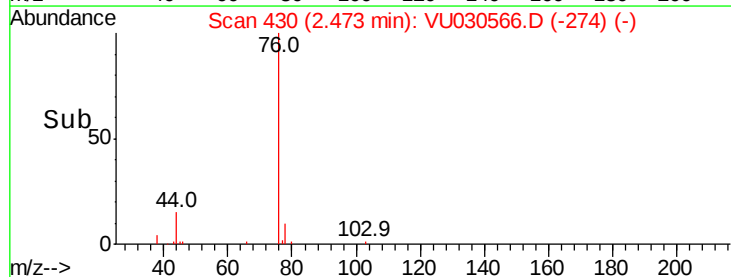
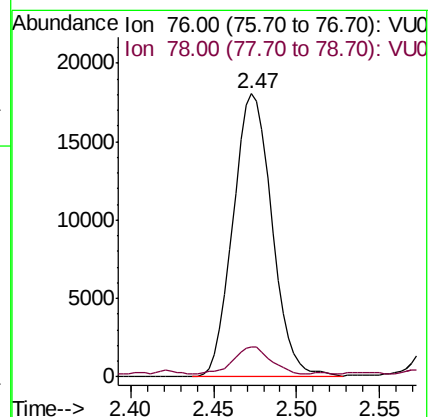
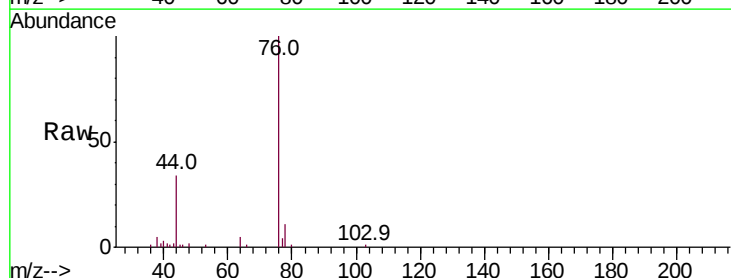
Acq: 30 Mar 2019 09:54

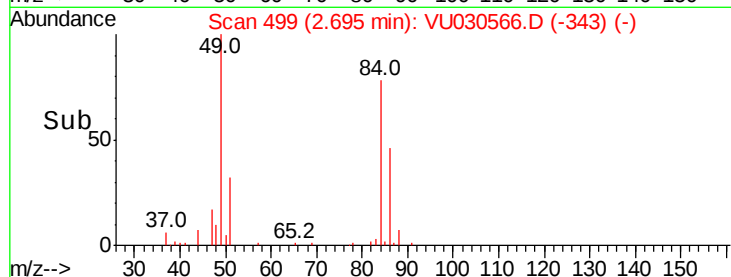
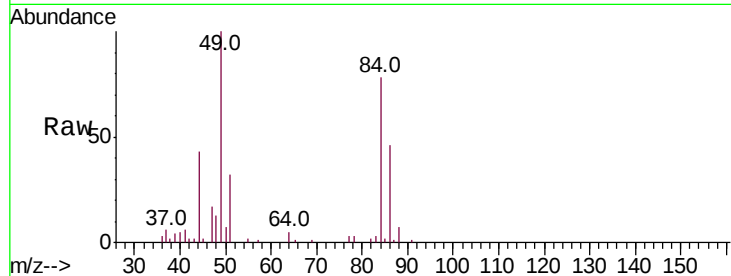
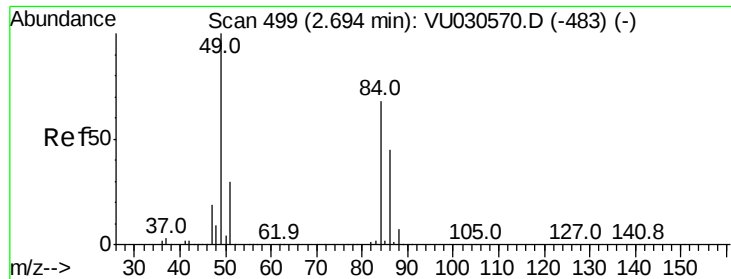
Tgt Ion: 76 Resp: 29550

Ion Ratio Lower Upper

76 100

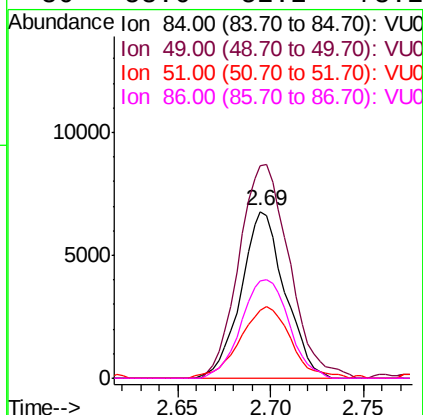
78 9.7 7.3 10.9





#15
Methvlene Chloride
Concen: 0.713 ug/l
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

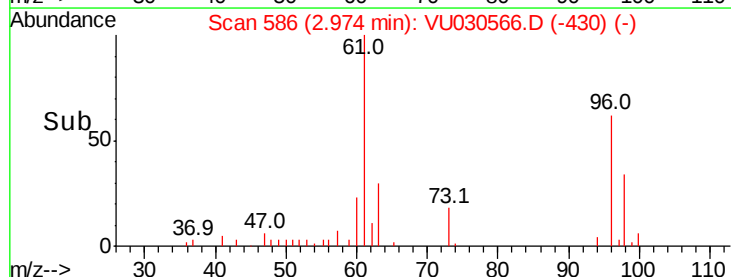
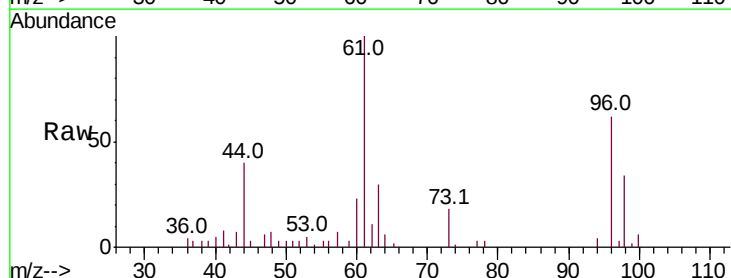
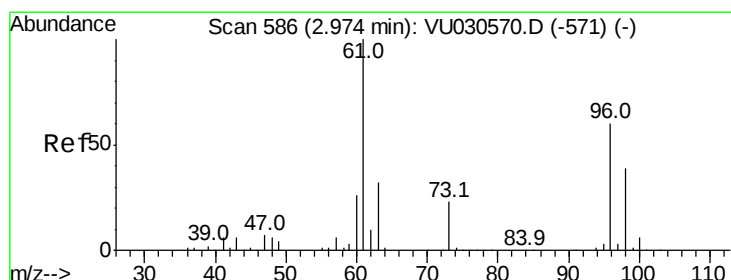
Tot Ion:	84	Resp:	11177
Ion	Ratio	Lower	Upper
84	100		
49	127.5	117.0	175.6
51	40.9	0.0	88.6
86	58.6	52.2	78.2



Instrument :
MSVOA_U
ClientSampled :
VSTDIC0.5

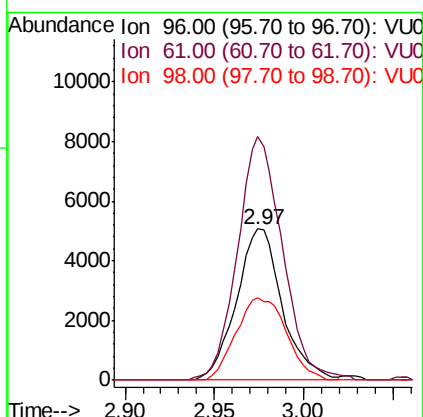
Manual Integrations
APPROVED

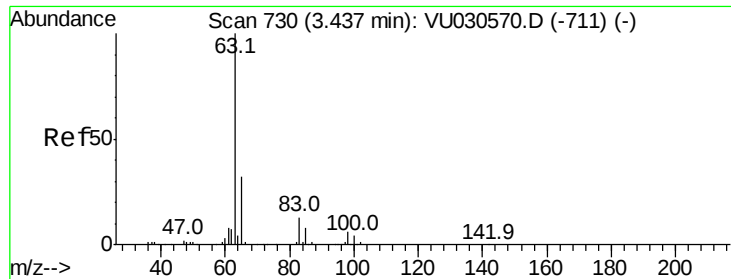
MMDadoda
4/5/2019 2:37:51 PM



#16
trans-1,2-Dichloroethene
Concen: 0.604 ug/l
RT: 2.97 min Scan# 586
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion:	96	Resp:	9072
Ion	Ratio	Lower	Upper
96	100		
61	161.2	132.3	198.5
98	54.2	51.3	76.9





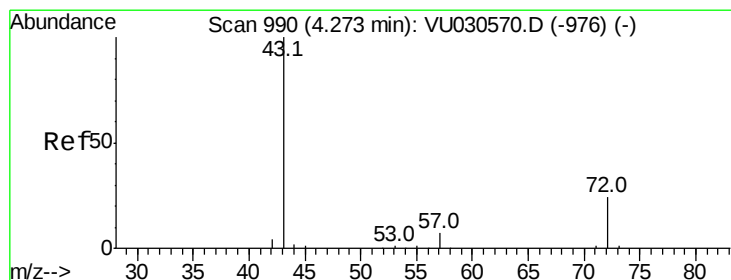
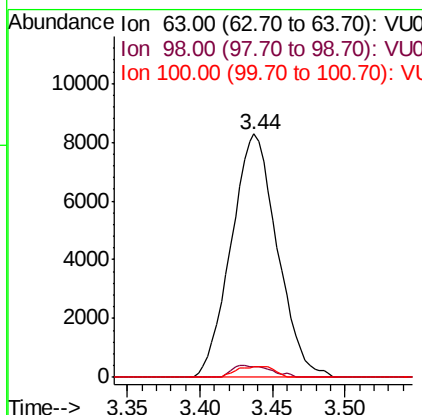
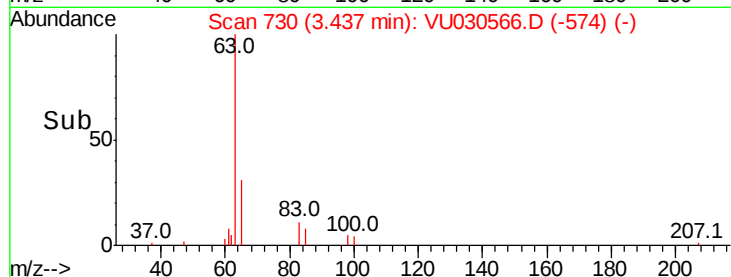
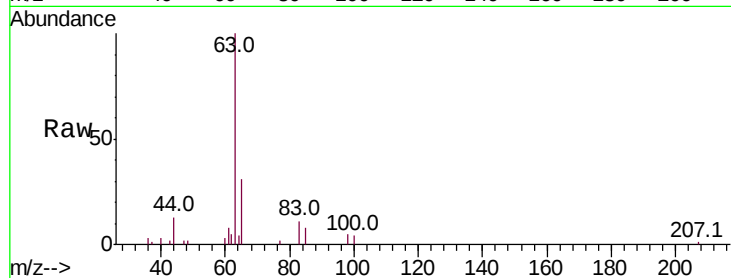
#17
 1,1-Dichloroethane
 Concen: 0.694 ug/l
 RT: 3.44 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Instrument :
 MSVOA_U
 ClientSampled :
 VSTDIC0.5

Tot Ion:	63	Resp:	18265
Ion	Ratio	Lower	Upper
63	100		
98	4.5	3.0	9.0
100	4.2	1.8	5.5

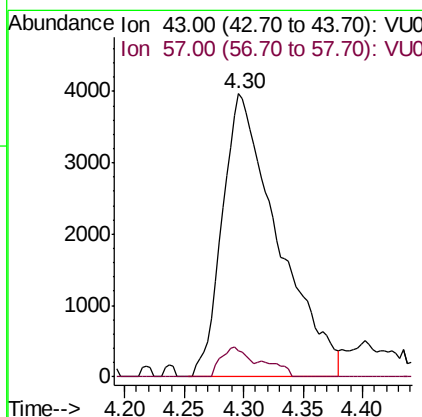
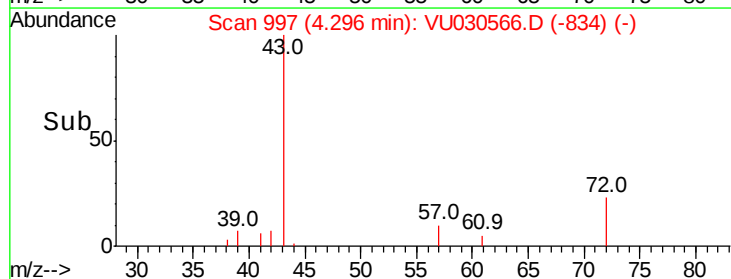
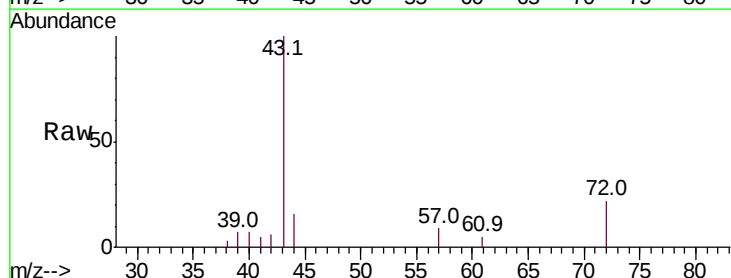
Manual Integrations
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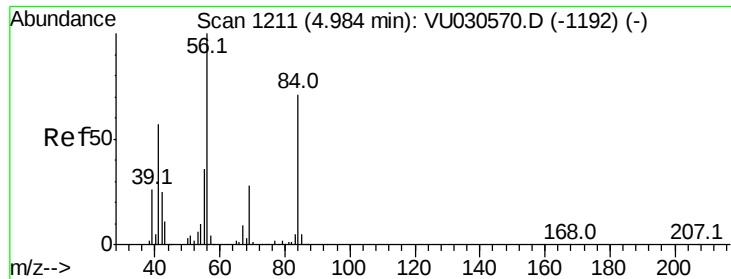
MMDadoda
 4/5/2019 2:37:51 PM



#18
 2-Butanone
 Concen: 3.509 ug/l
 RT: 4.30 min Scan# 997
 Delta R.T. 0.02 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Tgt Ion:	43	Resp:	12797
Ion	Ratio	Lower	Upper
43	100		
57	9.3	0.0	14.4





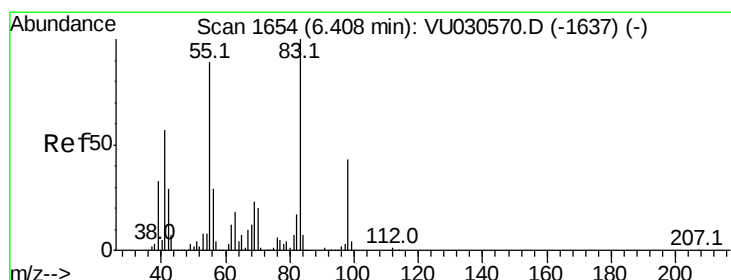
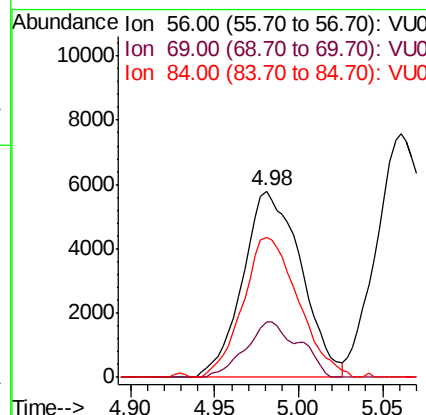
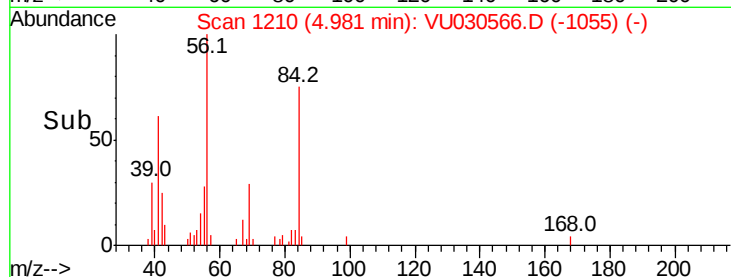
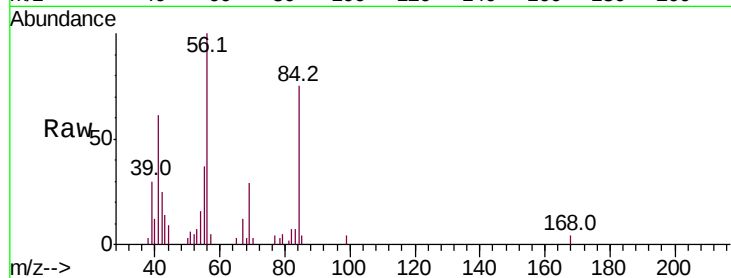
#19
Cyclohexane
Concen: 0.618 ug/l m
RT: 4.98 min Scan# 1210
Delta R.T. -0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampled :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.4	22.3	33.5
84	71.5	57.6	86.4

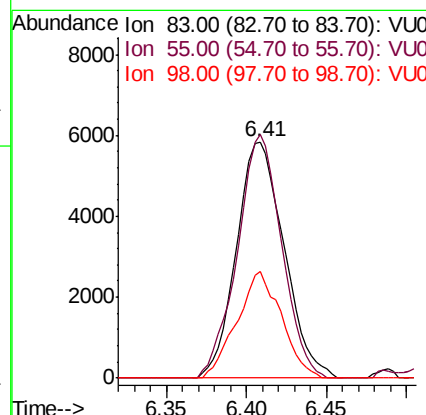
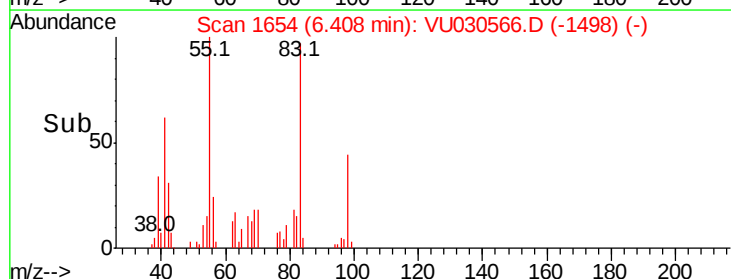
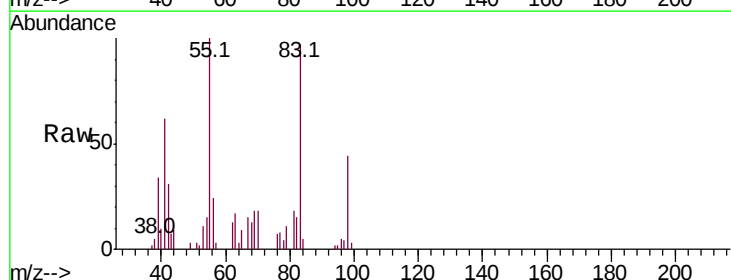
Manual Integrations
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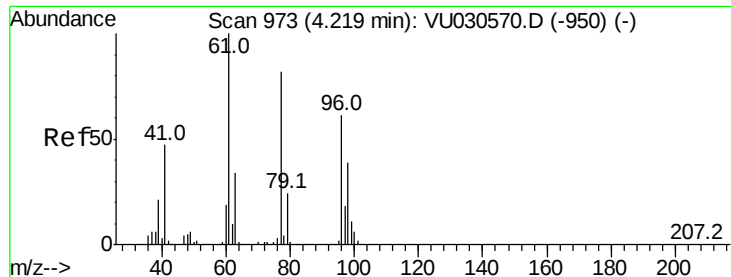
MMDadoda
4/5/2019 2:37:51 PM



#20
Methylcyclohexane
Concen: 0.497 ug/l
RT: 6.41 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion	Ratio	Lower	Upper
83	100		
55	95.9	72.0	108.0
98	42.2	35.0	52.4





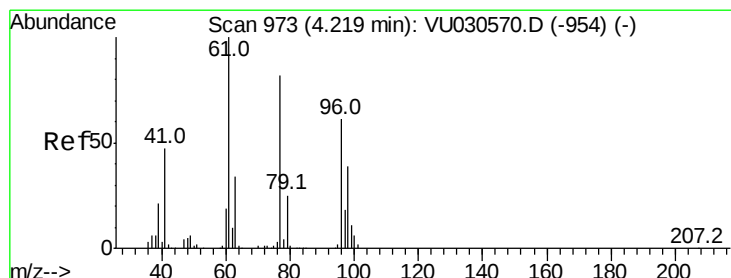
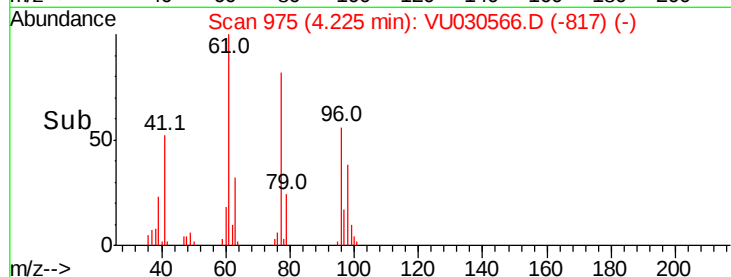
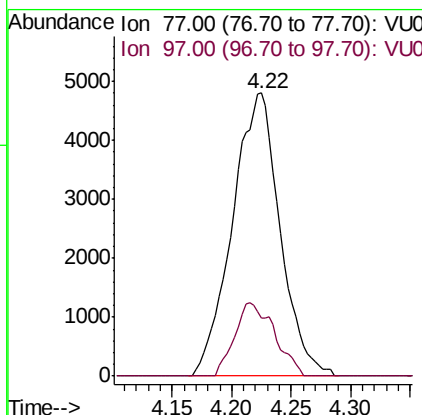
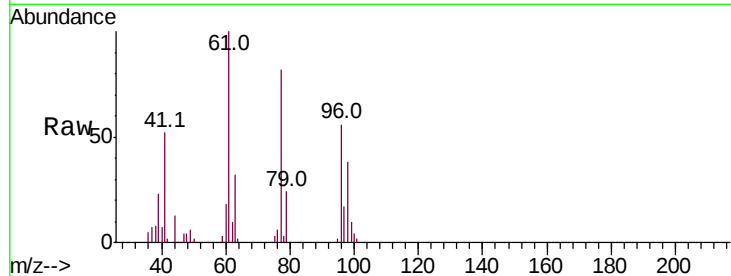
#21
 2,2-Dichloropropane
 Concen: 0.610 ug/l
 RT: 4.22 min Scan# 975
 Delta R.T. 0.01 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Instrument :
 MSVOA_U
 ClientSampled :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
77	100		
97	21.8	17.6	26.4

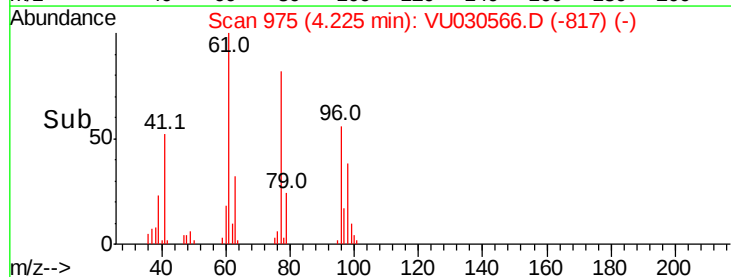
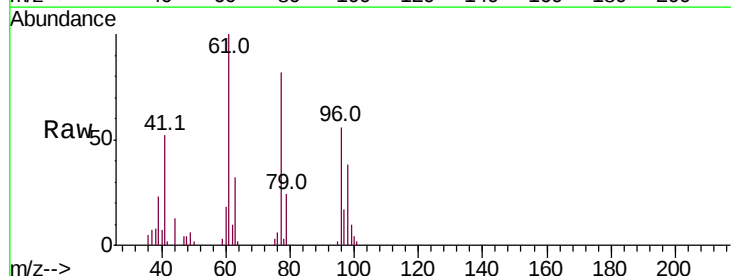
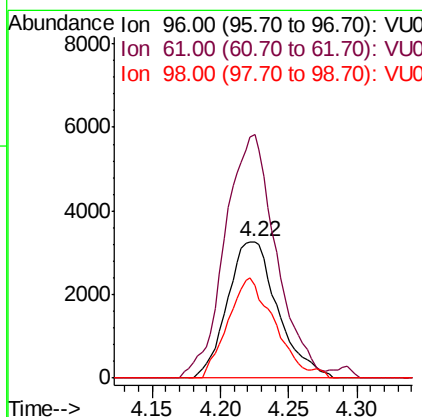
Manual Integrations
 APPROVED

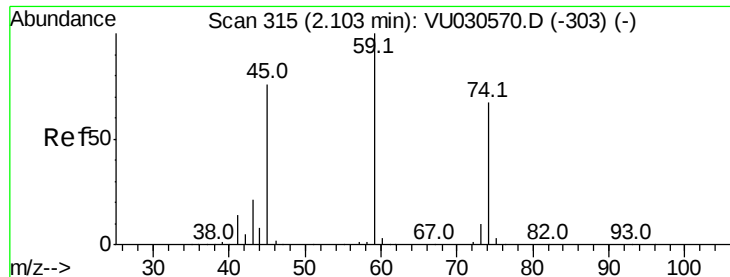
MMDadoda
 4/5/2019 2:37:51 PM



#22
 cis-1,2-Dichloroethene
 Concen: 0.501 ug/l
 RT: 4.22 min Scan# 975
 Delta R.T. 0.01 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Tgt Ion	Ratio	Lower	Upper
96	100		
61	181.7	0.0	427.0
98	68.9	32.5	97.4





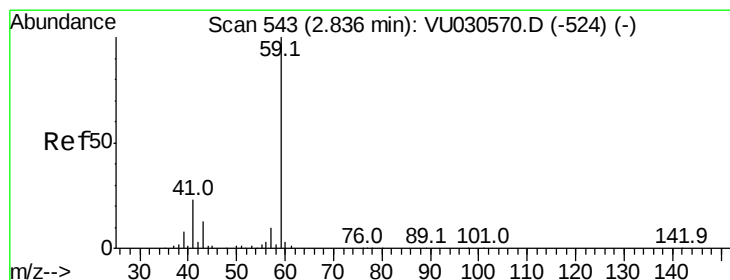
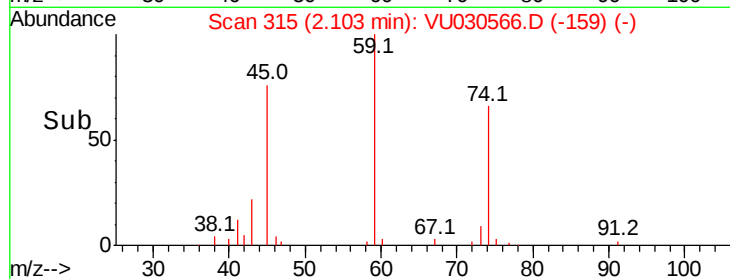
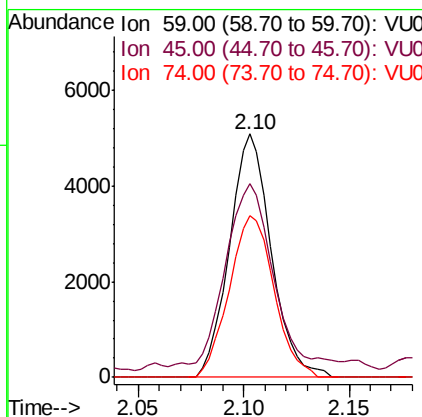
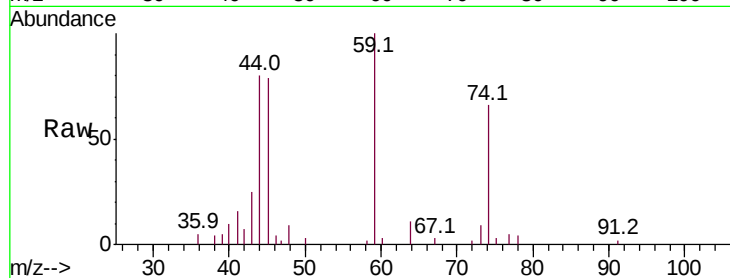
#23
Diethyl Ether
Concen: 0.683 ug/l
RT: 2.10 min Scan# 315
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
59	100		
45	98.4	61.6	92.4#
74	71.2	53.2	79.8

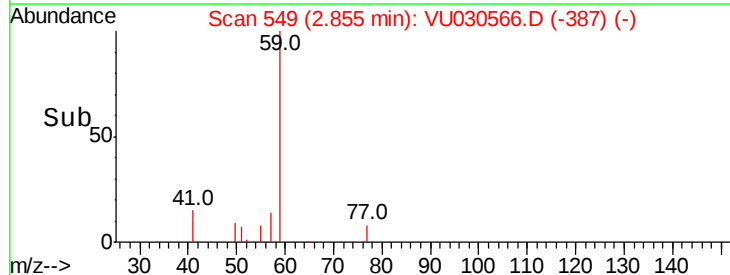
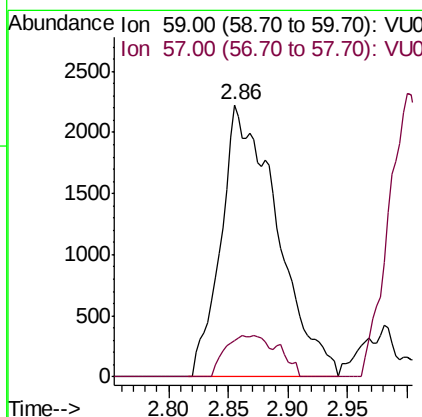
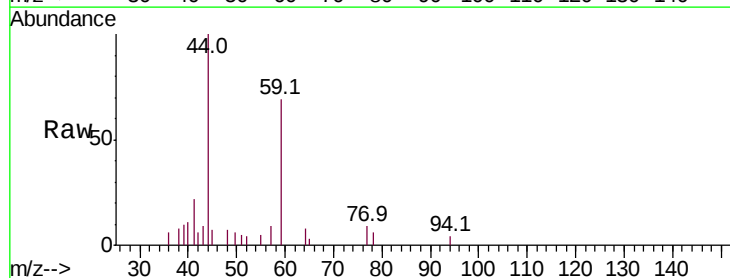
Manual Integrations
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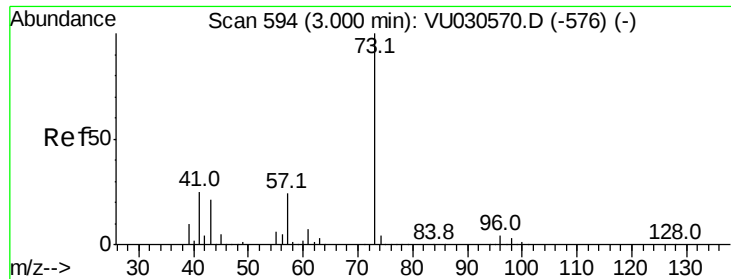
MMDadoda
4/5/2019 2:37:51 PM



#24
tert-Butyl Alcohol
Concen: 6.634 ug/l
RT: 2.86 min Scan# 549
Delta R.T. 0.02 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion	Ratio	Lower	Upper
59	100		
57	11.6	8.4	12.6





#25

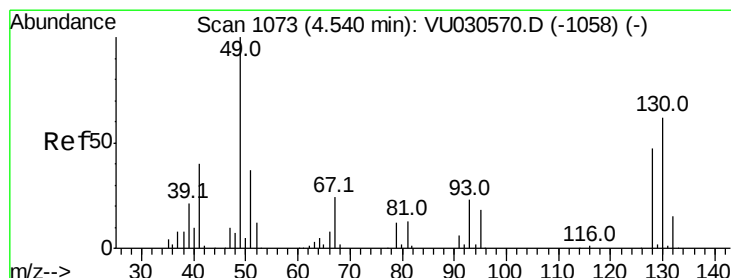
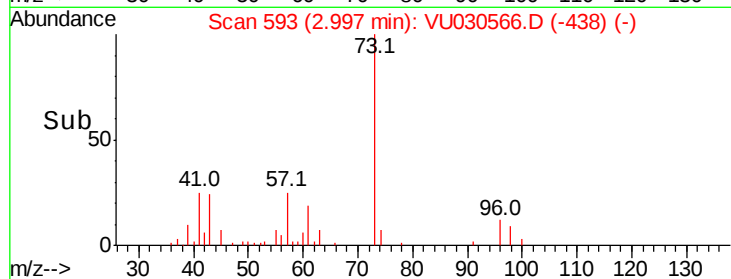
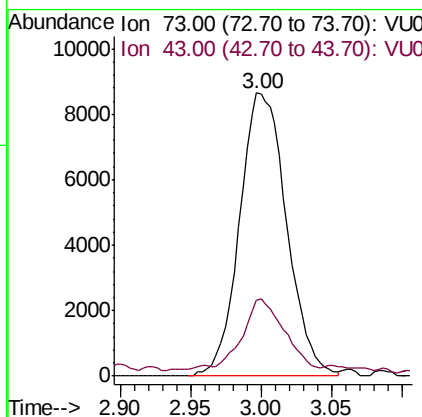
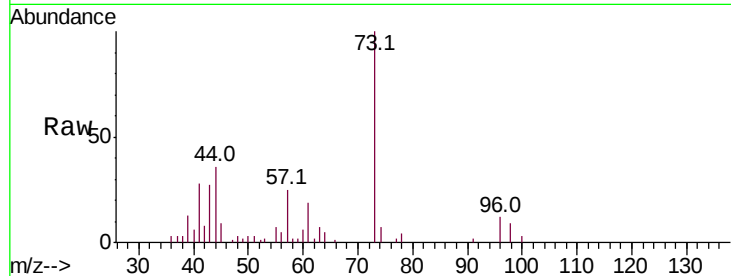
Methyl tert-Butyl Ether
 Concen: 0.594 ug/l
 RT: 3.00 min Scan# 593
 Delta R.T. -0.00 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
73	100		
43	20.3	16.6	24.8

Manual Integrations
 APPROVED

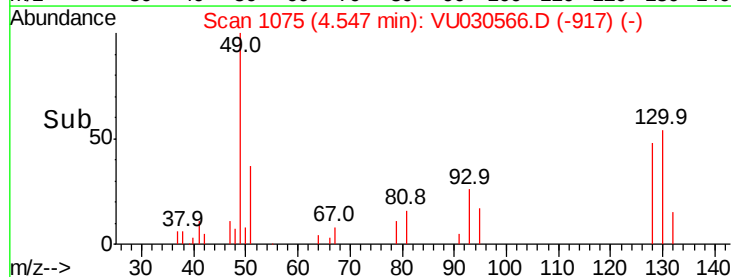
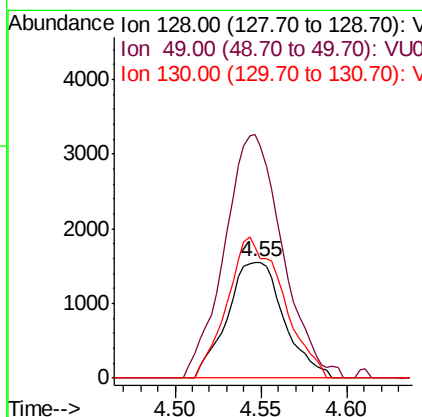
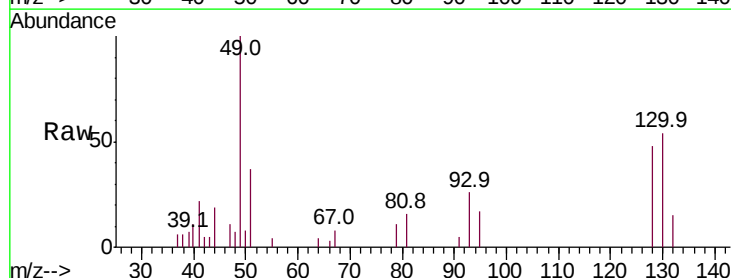
MMDadoda
 4/5/2019 2:37:51 PM

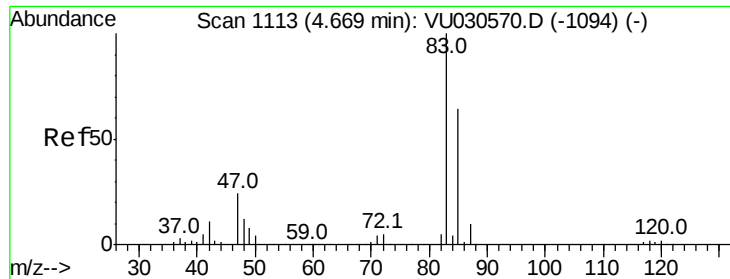


#26

Bromochloromethane
 Concen: 0.496 ug/l
 RT: 4.55 min Scan# 1075
 Delta R.T. 0.01 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Tgt Ion	Ratio	Lower	Upper
128	100		
49	214.8	0.0	418.2
130	119.5	103.4	155.0





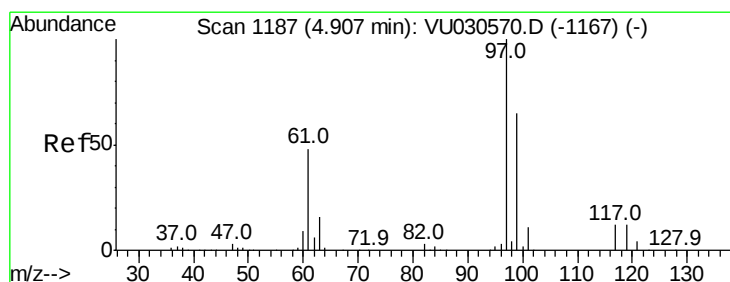
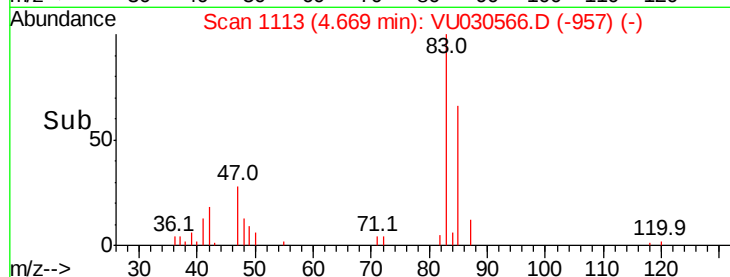
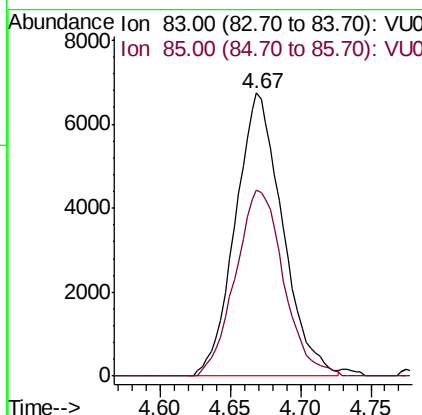
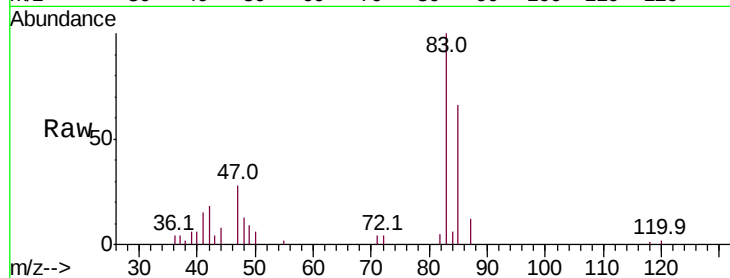
#27
Chloroform
Concen: 0.575 ug/l
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	15711
Ion Ratio	100	Lower	Upper
85	65.8	0.0	128.4

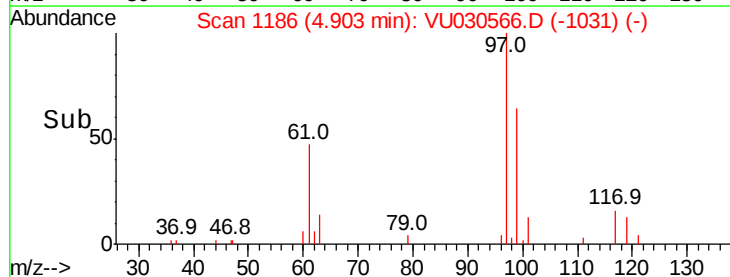
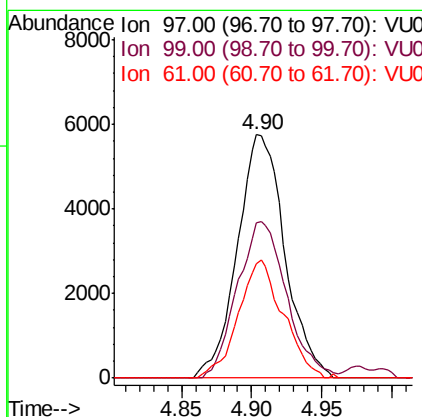
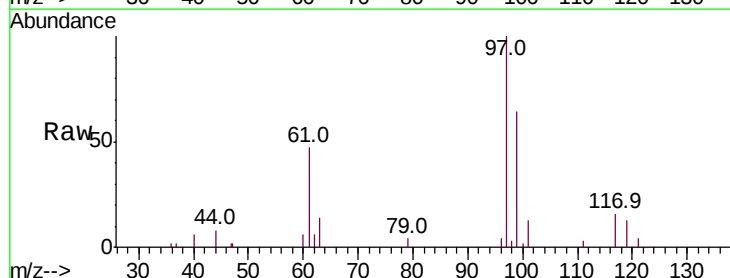
Manual Integrations
APPROVED

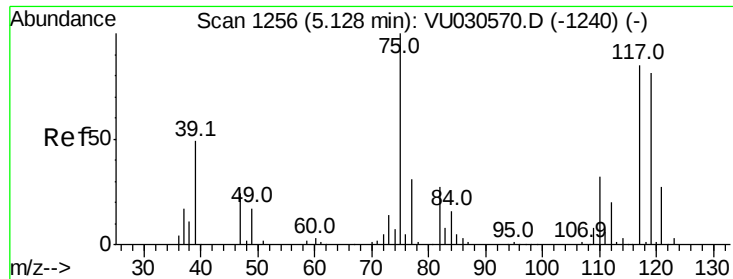
MMDadoda
4/5/2019 2:37:51 PM



#28
1,1,1-Trichloroethane
Concen: 0.607 ug/l
RT: 4.90 min Scan# 1186
Delta R.T. -0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion	97	Resp	13544
Ion Ratio	100	Lower	Upper
99	66.9	32.0	96.0
61	45.7	24.0	72.0





#29

1,1-Dichloropropene

Concen: 0.575 ug/l

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 11649

Ion Ratio Lower Upper

75 100

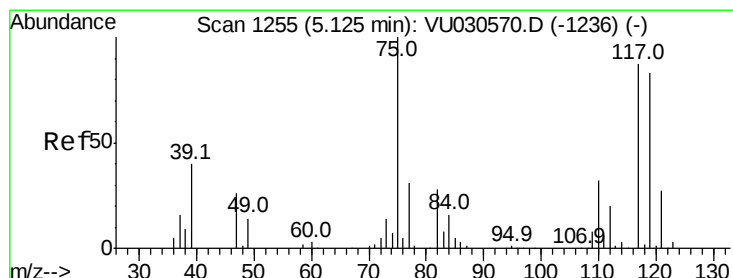
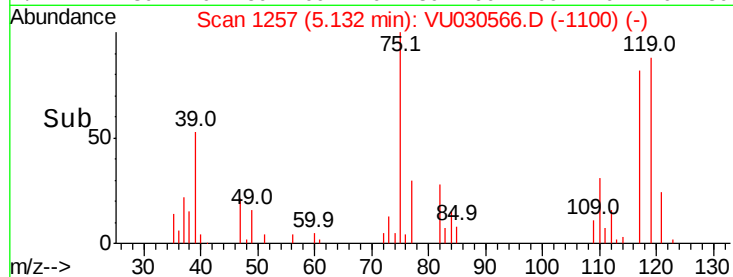
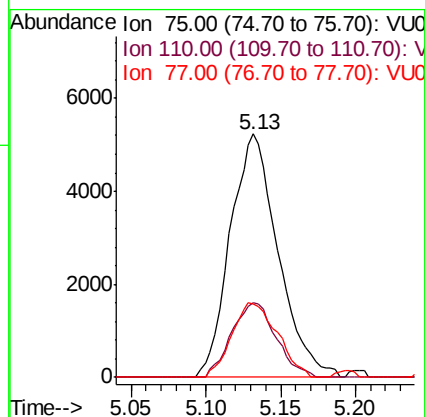
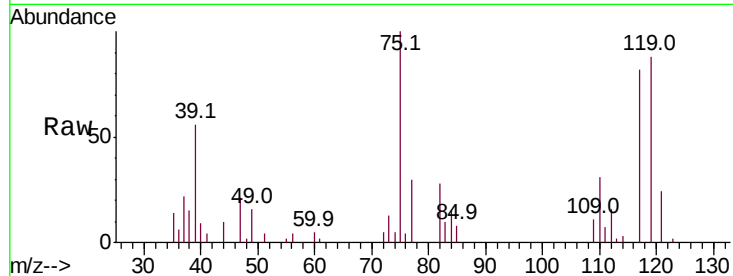
110 28.6 16.0 48.0

77 29.0 24.8 37.2

Manual Integrations
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#30

Carbon Tetrachloride

Concen: 0.559 ug/l

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

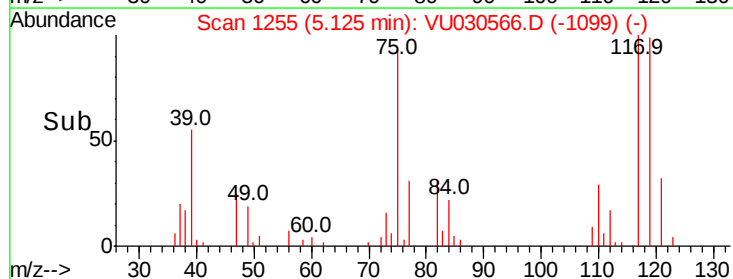
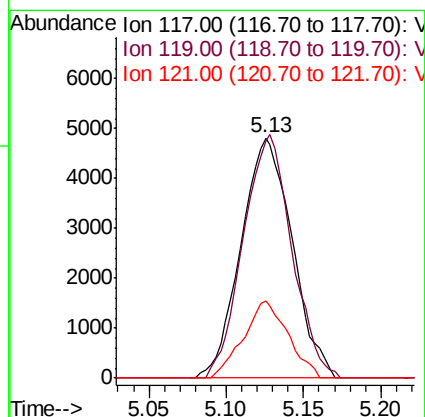
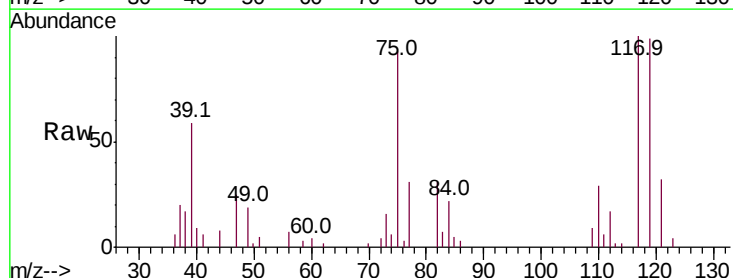
Tgt Ion: 117 Resp: 11044

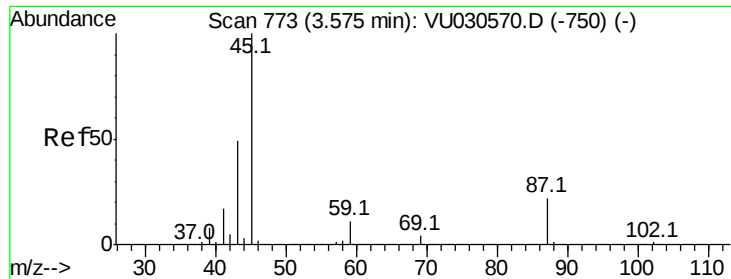
Ion Ratio Lower Upper

117 100

119 99.0 76.4 114.6

121 32.1 24.7 37.1





#31

Isopropyl Ether

Concen: 0.692 ug/l

RT: 3.58 min Scan# 773

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 26641

Ion Ratio Lower Upper

45 100

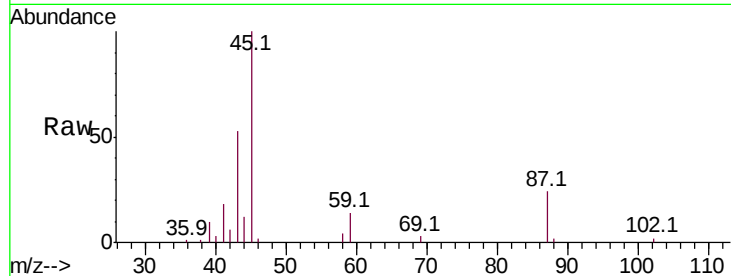
43 54.1 25.0 75.0

Manual Integrations

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Abundance Ion 45.00 (44.70 to 45.70): VU030570.D (-750) (-)

Ion 43.00 (42.70 to 43.70): VU030570.D (-750) (-)

12000

10000

8000

6000

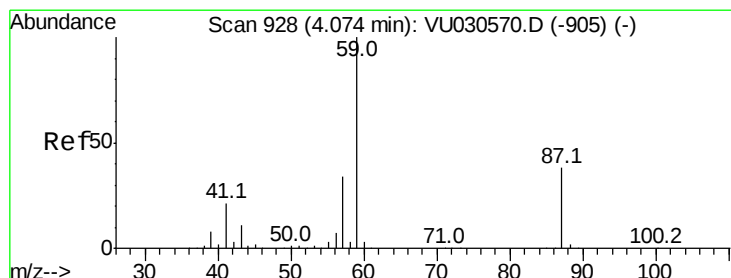
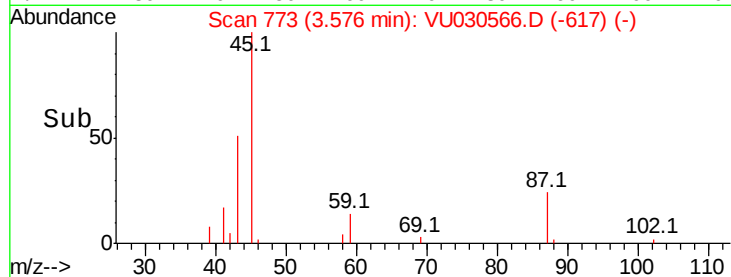
4000

2000

0

3.50 3.55 3.60 3.65 3.70

Time-->



#32

Ethyl-t-butyl ether

Concen: 0.576 ug/l

RT: 4.07 min Scan# 928

Delta R.T. 0.00 min

Lab File: VU030566.D

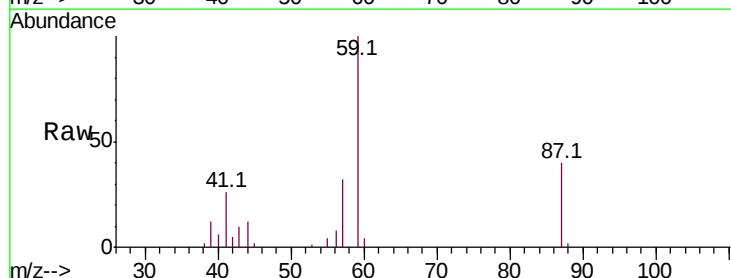
Acq: 30 Mar 2019 09:54

Tgt Ion: 59 Resp: 20539

Ion Ratio Lower Upper

59 100

87 39.1 30.1 45.1



Abundance Ion 59.00 (58.70 to 59.70): VU030570.D (-905) (-)

Ion 87.00 (86.70 to 87.70): VU030570.D (-905) (-)

8000

6000

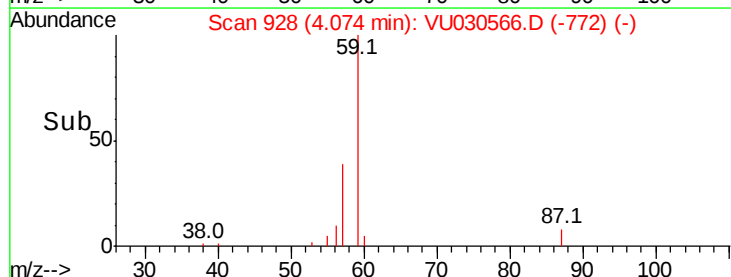
4000

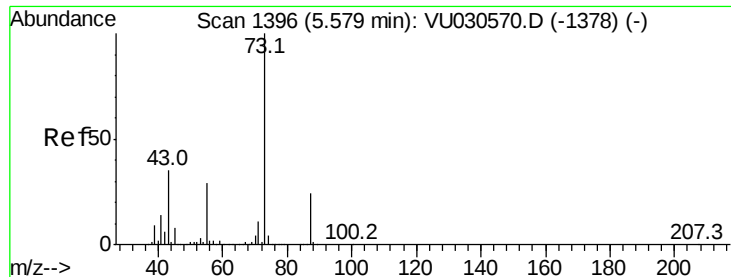
2000

0

4.00 4.05 4.10 4.15

Time-->





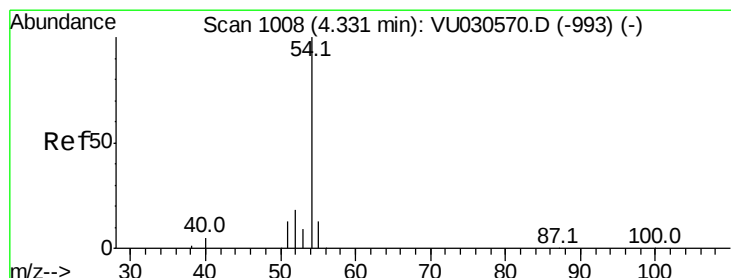
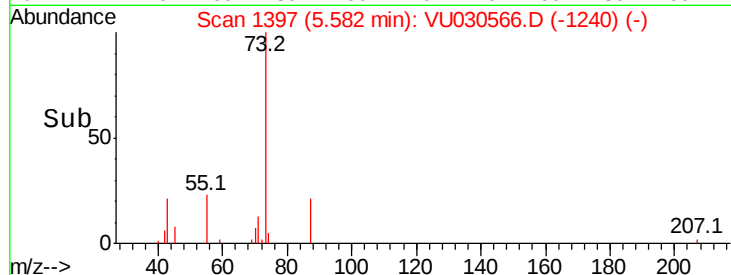
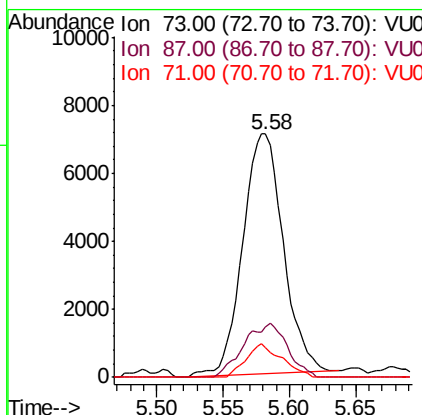
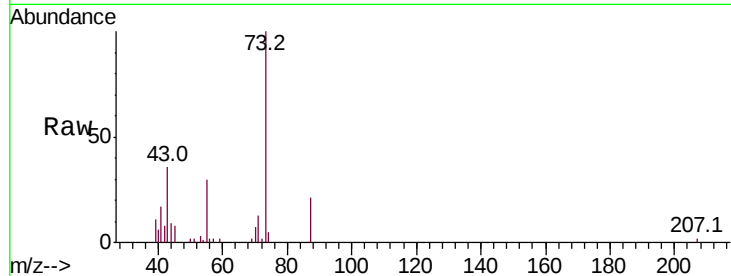
#33
Tert-Butyl methyl ether
Concen: 0.473 ug/l
RT: 5.58 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion:	73	Resp:	15147
Ion	Ratio	Lower	Upper
73	100		
87	24.1	18.6	27.8
71	12.2	9.0	13.4

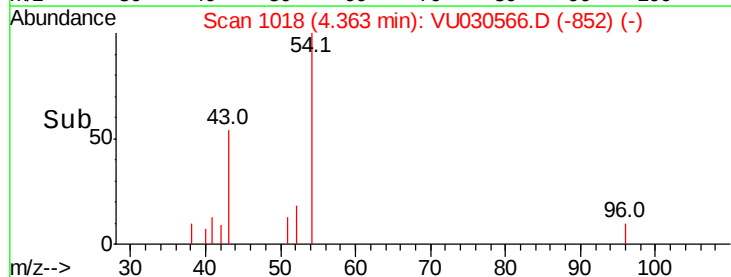
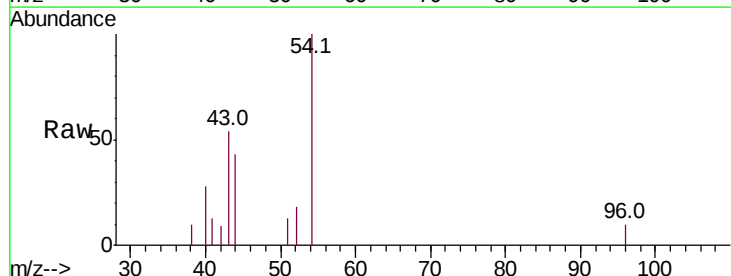
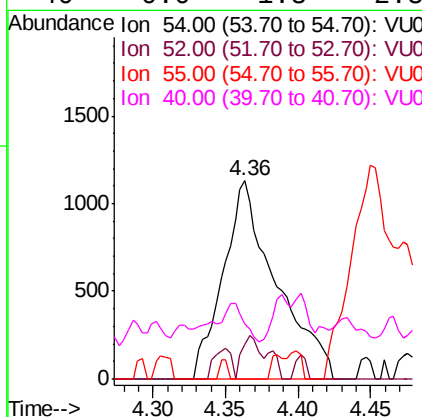
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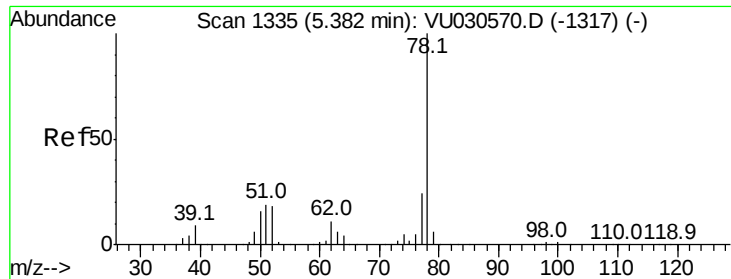
MMDadoda
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#34
Propionitrile
Concen: 2.833 ug/l
RT: 4.36 min Scan# 1018
Delta R.T. 0.03 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion:	54	Resp:	2864
Ion	Ratio	Lower	Upper
54	100		
52	7.3	14.1	21.1#
55	0.0	10.4	15.6#
40	0.0	1.8	2.8#





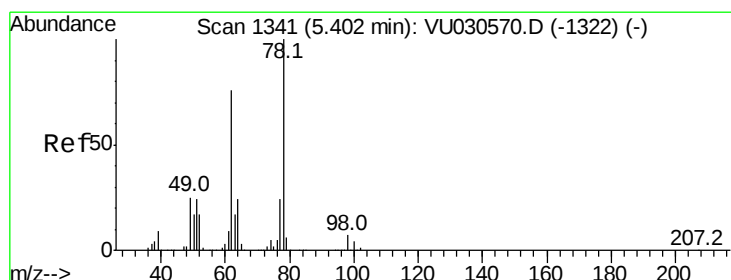
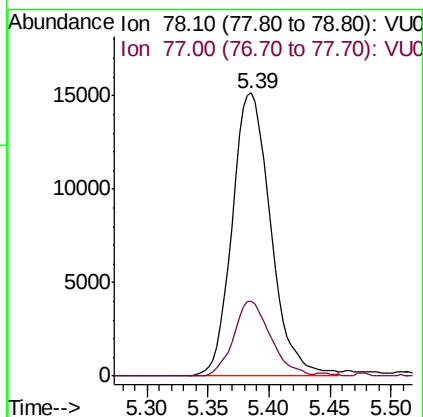
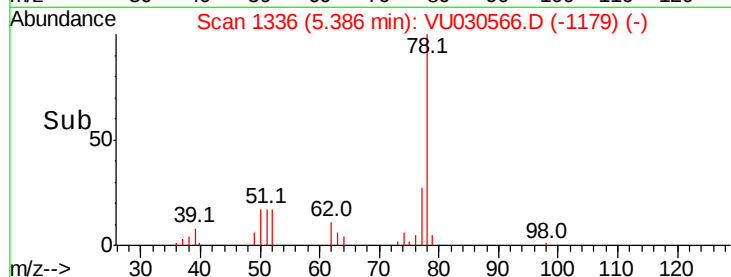
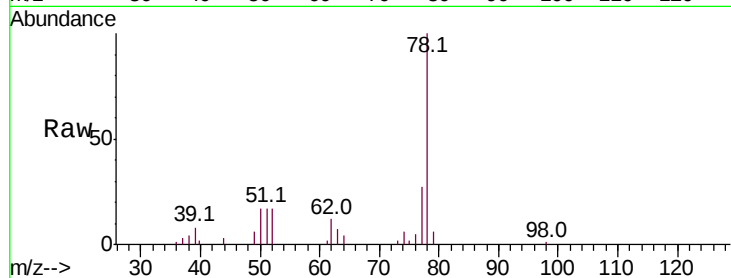
#35
Benzene
Concen: 0.559 ug/l
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
78	100		
77	26.6	19.5	29.3

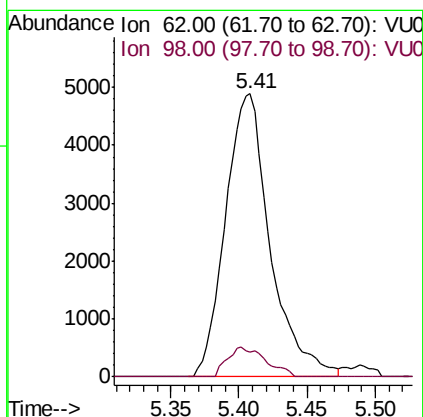
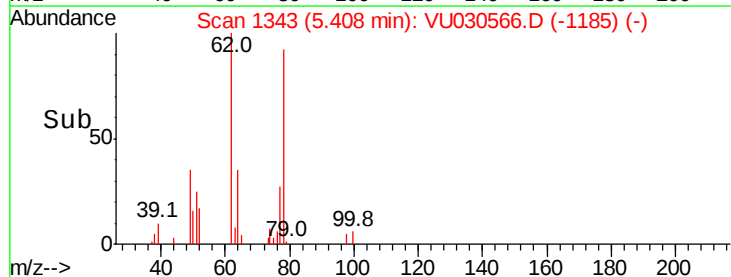
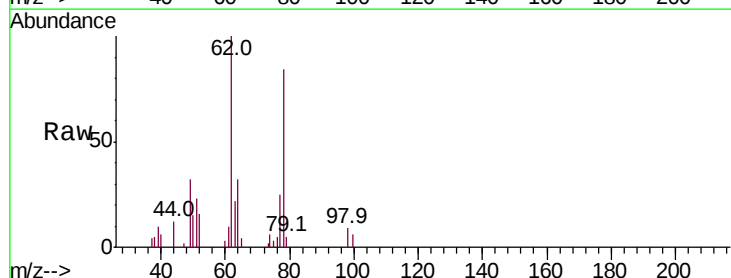
Manual Integrations
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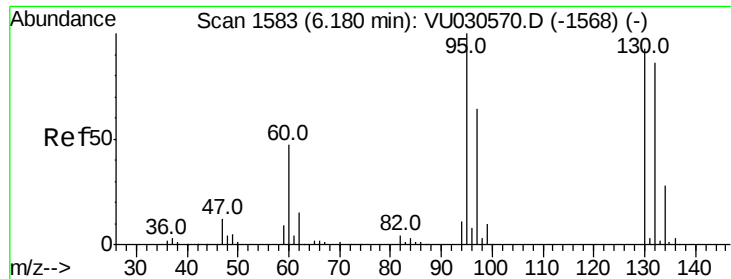
MMDadoda
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#36
1,2-Dichloroethane
Concen: 0.680 ug/l
RT: 5.41 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.0	6.8	10.2





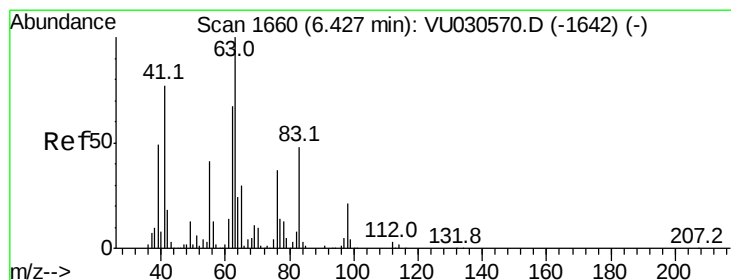
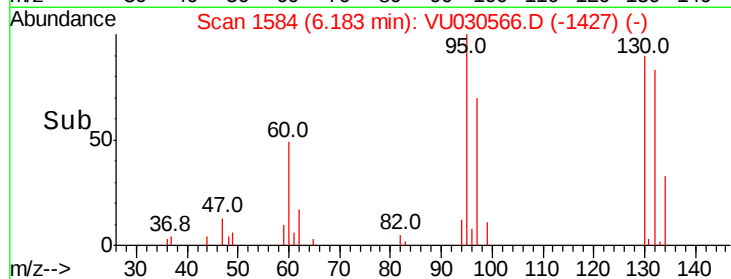
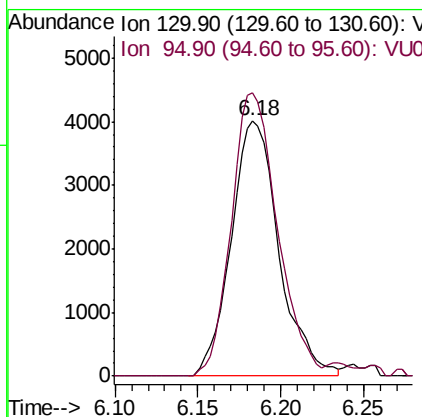
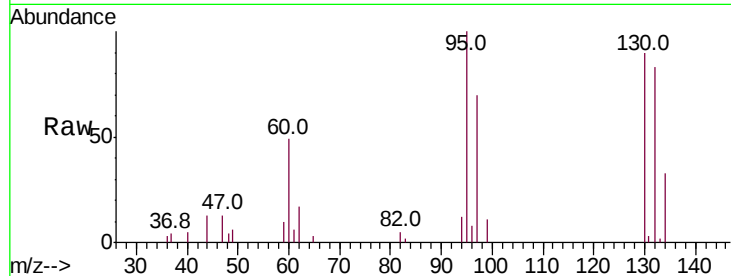
#37
 Trichloroethene
 Concen: 0.485 ug/l
 RT: 6.18 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion:130 Resp: 8043
 Ion Ratio Lower Upper
 130 100
 95 110.8 85.8 128.8

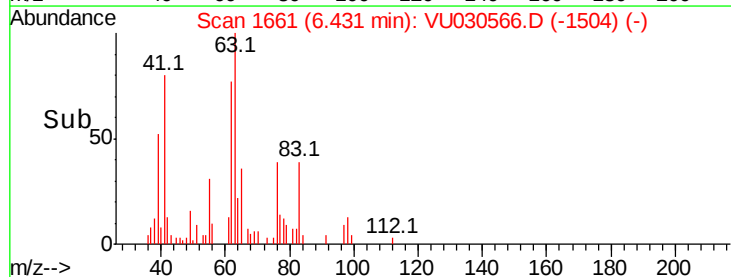
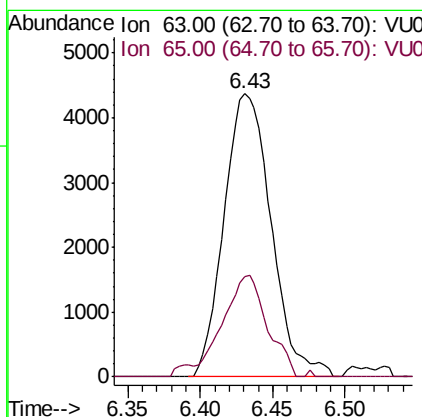
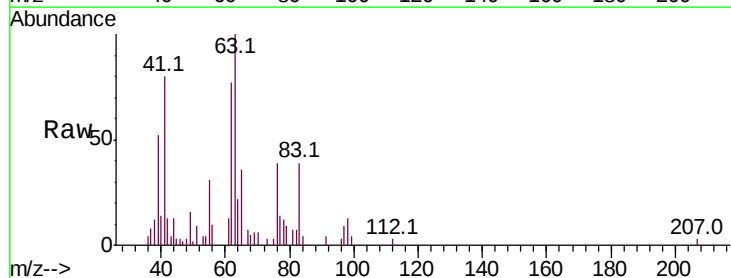
Manual Integrations
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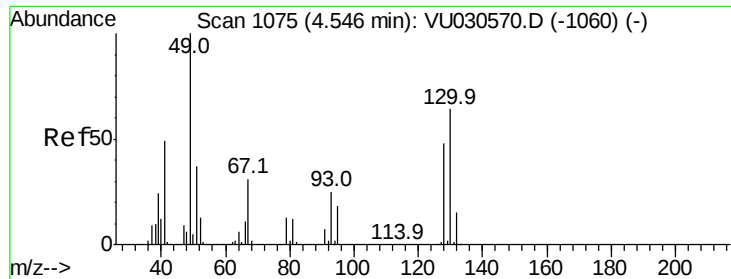
MMDadoda
 4/5/2019 2:37:51 PM



#38
 1,2-Dichloropropane
 Concen: 0.643 ug/l
 RT: 6.43 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Tgt Ion: 63 Resp: 9892
 Ion Ratio Lower Upper
 63 100
 65 35.6 23.9 35.9





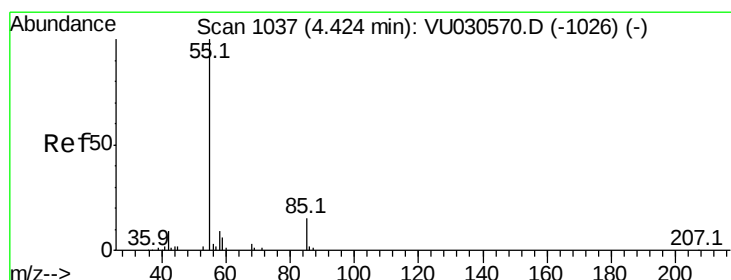
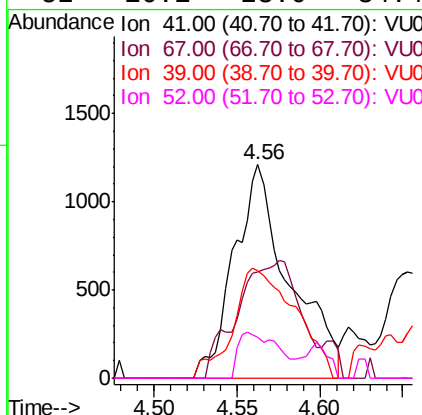
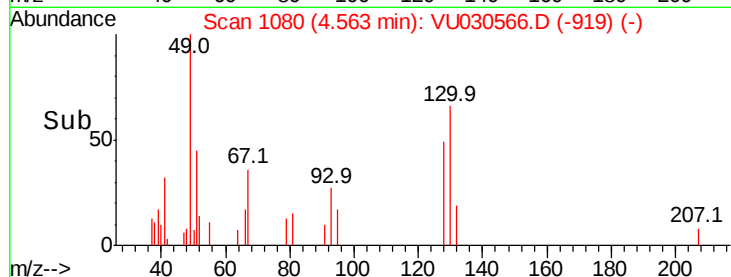
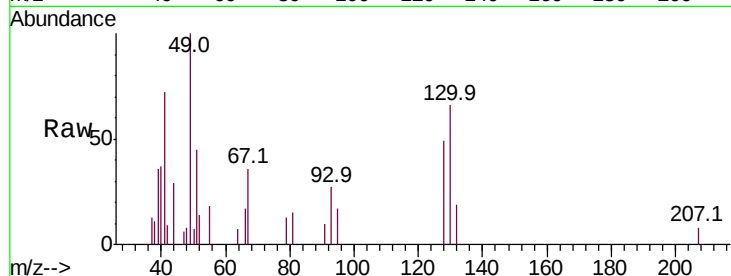
#39
Methacrylonitrile
Concen: 0.621 ug/l
RT: 4.56 min Scan# 1080
Delta R.T. 0.02 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
41	100		
67	63.6	50.2	75.4
39	58.2	40.7	61.1
52	16.1	23.0	34.4

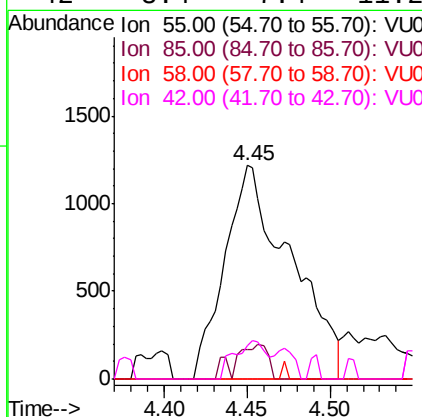
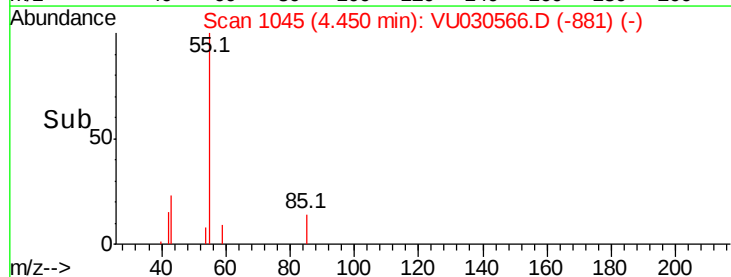
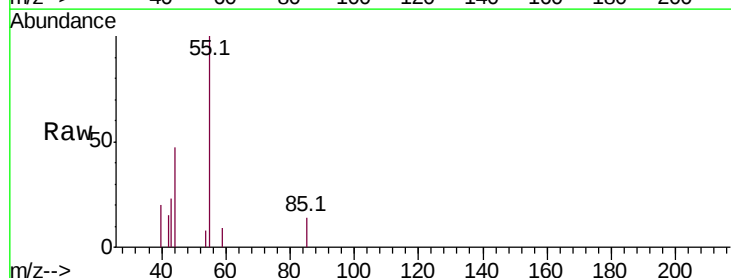
Manual Integrations
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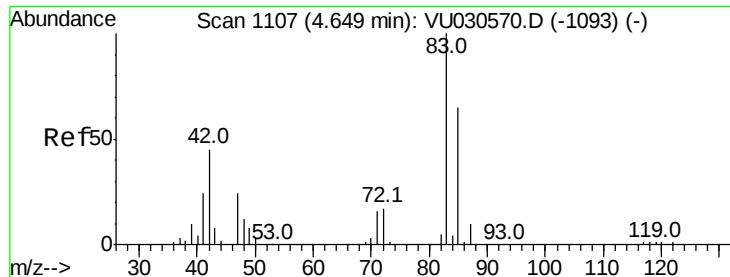
MMDadoda
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#40
Methyl acrylate
Concen: 0.492 ug/l
RT: 4.45 min Scan# 1045
Delta R.T. 0.03 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion	Ratio	Lower	Upper
55	100		
85	0.0	12.5	18.7
58	0.0	6.3	9.5
42	8.4	7.4	11.2





#41

Tetrahydrofuran

Concen: 1.274 ug/l

RT: 4.67 min Scan# 1112

Delta R.T. 0.02 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

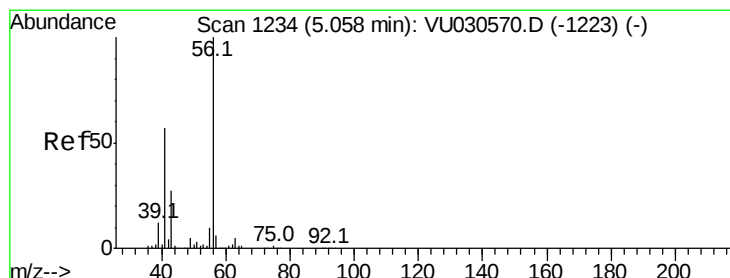
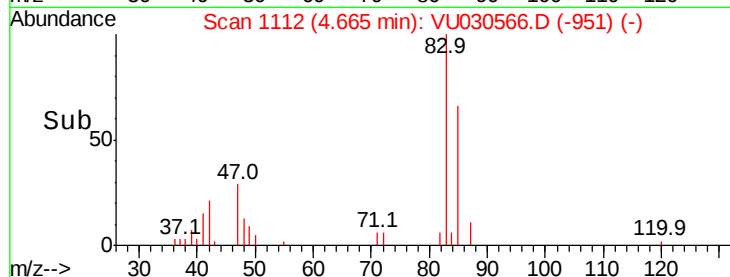
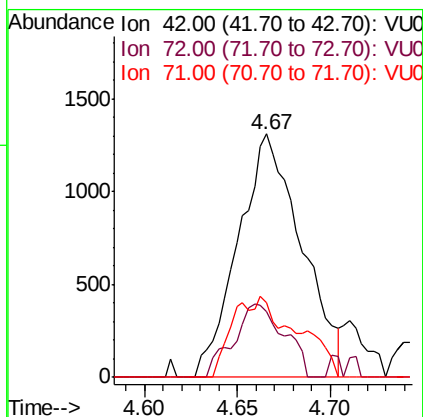
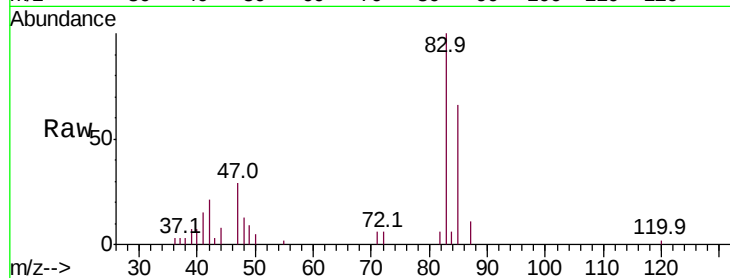
VSTDIC0.5

Tot Ion:	42	Resp:	3112
Ion	Ratio	Lower	Upper
42	100		
72	24.0	33.4	50.0#
71	10.6	28.8	43.2#

Manual Integrations
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#42

1-Chlorobutane

Concen: 0.619 ug/l

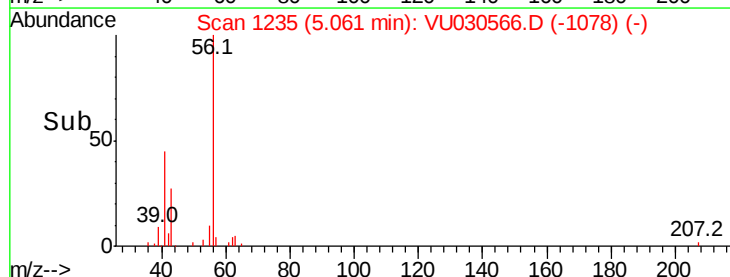
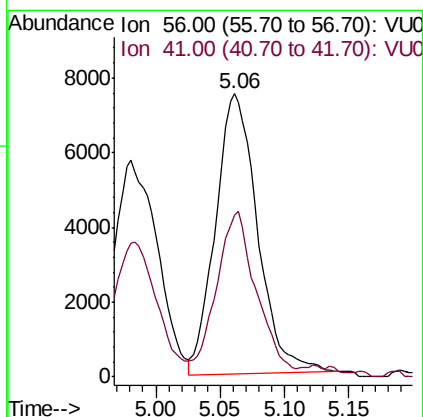
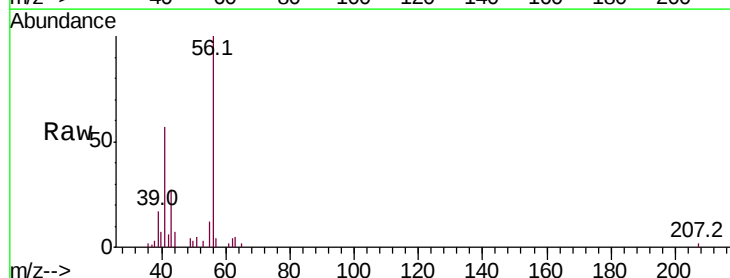
RT: 5.06 min Scan# 1235

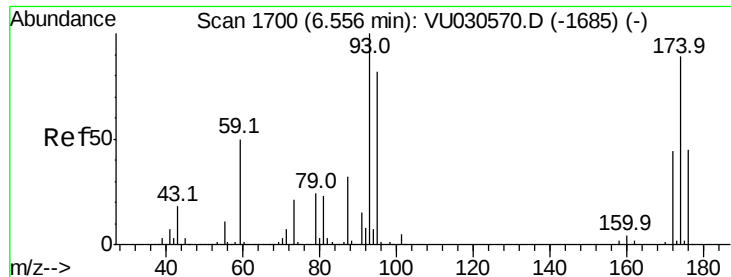
Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Tgt Ion:	56	Resp:	16984
Ion	Ratio	Lower	Upper
56	100		
41	51.7	28.5	85.6





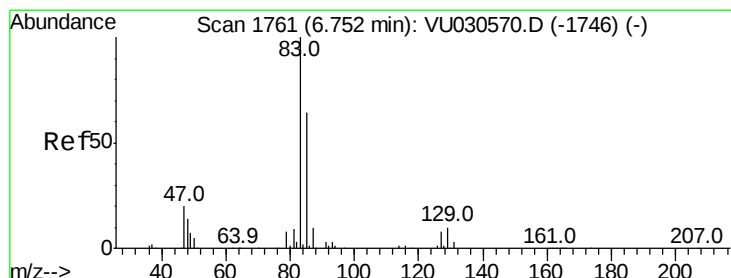
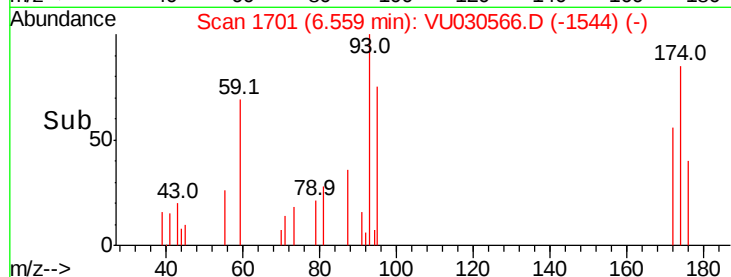
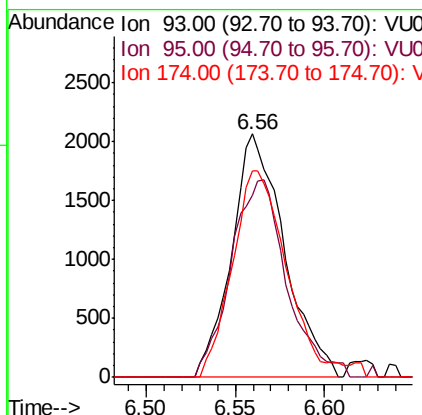
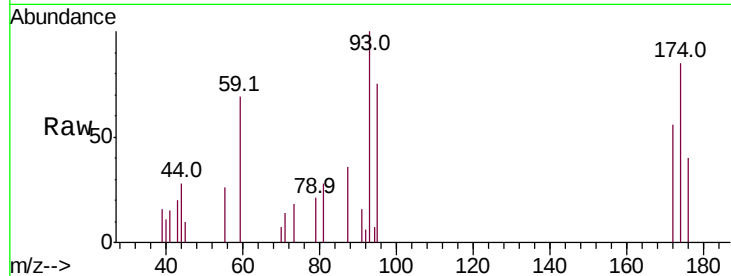
#43
Dibromomethane
Concen: 0.547 ug/l
RT: 6.56 min Scan# 1701
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampled :
VSTDIC0.5

Tot Ion: 93 Resp: 4264
Ion Ratio Lower Upper
93 100
95 85.8 63.9 95.9
174 88.0 71.0 106.4

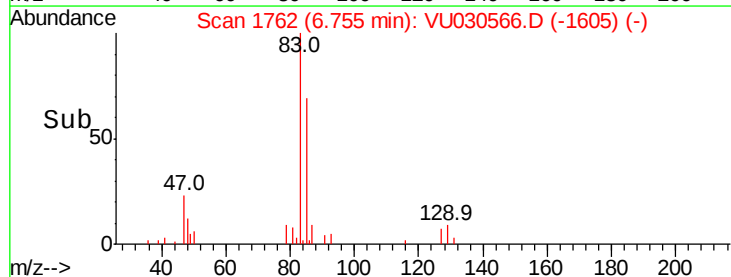
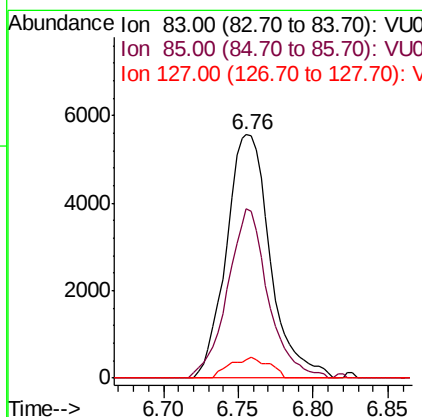
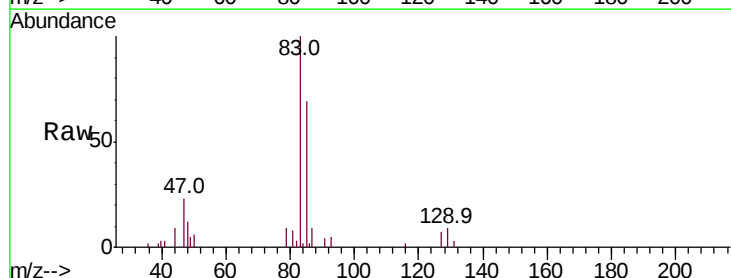
Manual Integrations
APPROVED

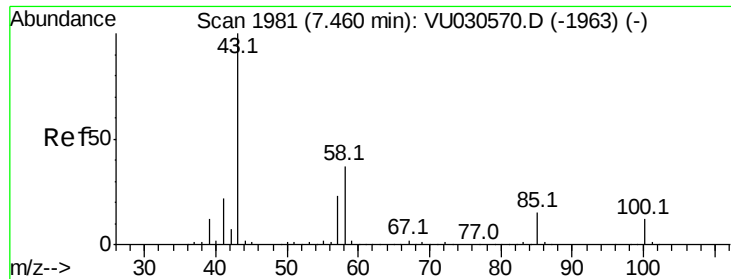
MMDadoda
4/5/2019 2:37:51 PM



#44
Bromodichloromethane
Concen: 0.602 ug/l
RT: 6.76 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion: 83 Resp: 11344
Ion Ratio Lower Upper
83 100
85 69.4 51.1 76.7
127 7.3 6.1 9.1





#45

4-Methyl-2-Pentanone

Concen: 3.265 ug/l

RT: 7.47 min Scan# 1984

Delta R.T. 0.01 min

Lab File: VU030566.D

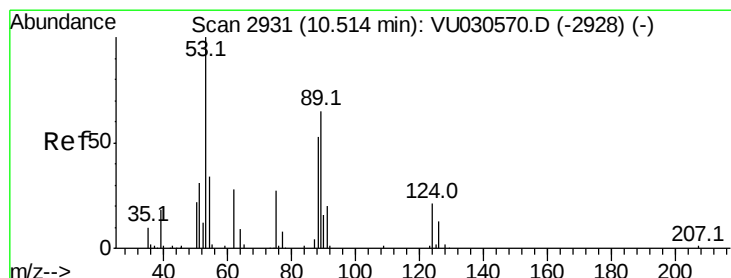
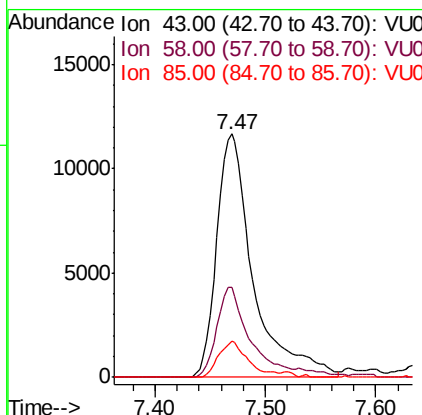
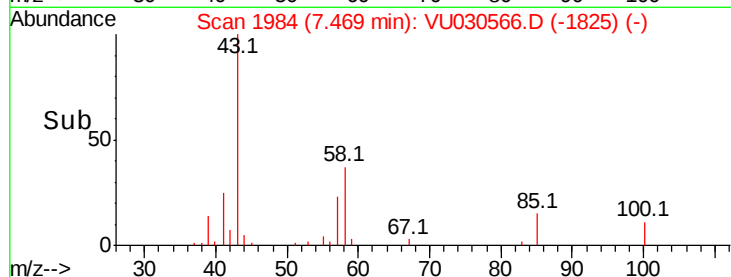
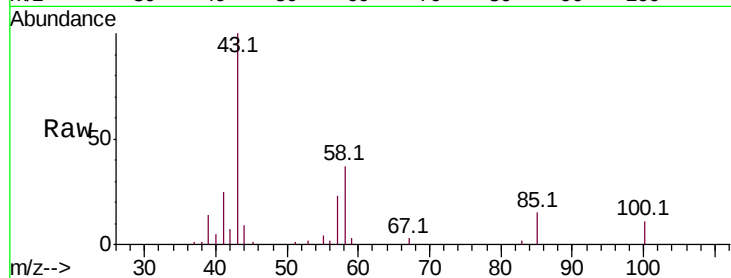
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion:	43	Resp:	26833
Ion	Ratio	Lower	Upper
43	100		
58	32.8	18.6	55.8
85	11.9	11.8	17.6

Manual Integrations
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4/5/2019 2:37:51 PM



#46

t-1,4-Dichloro-2-butene

Concen: 1.062 ug/l m

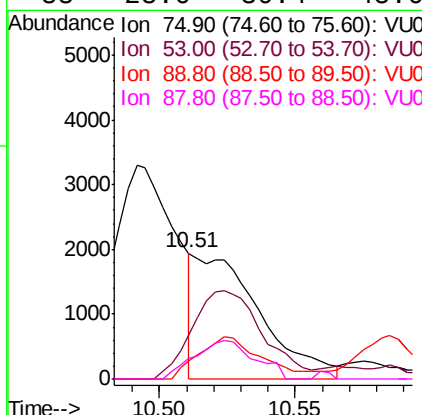
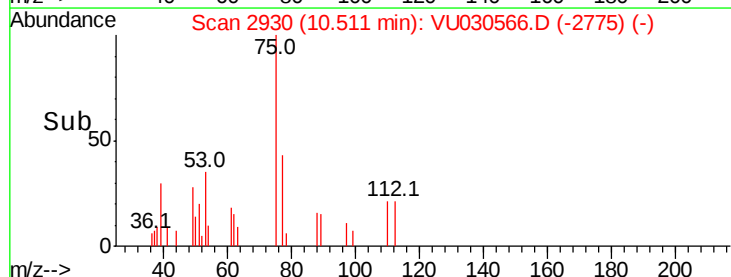
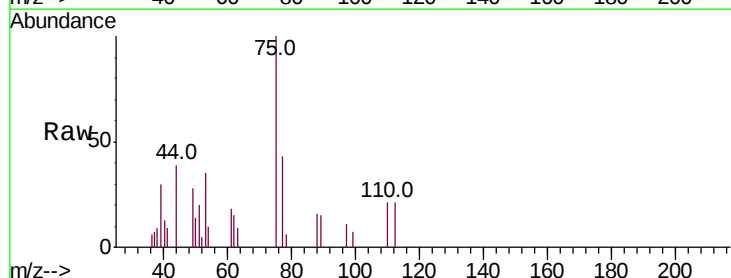
RT: 10.51 min Scan# 2930

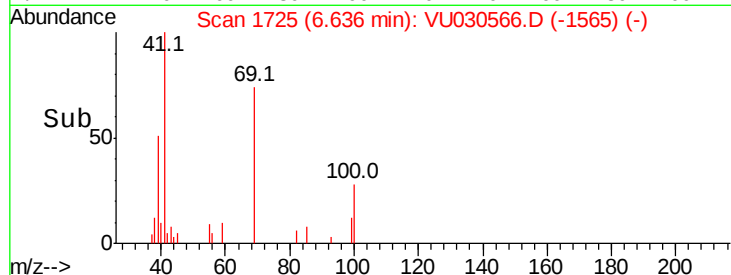
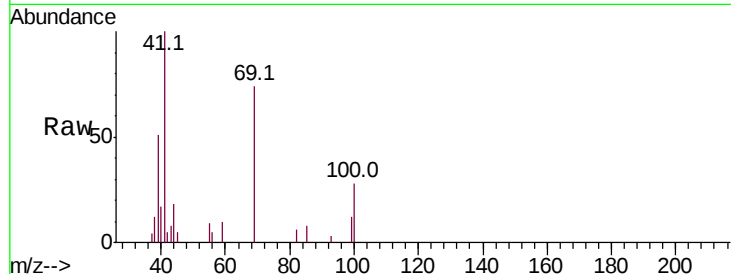
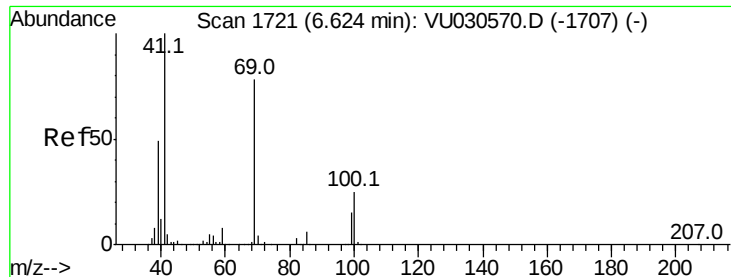
Delta R.T. -0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

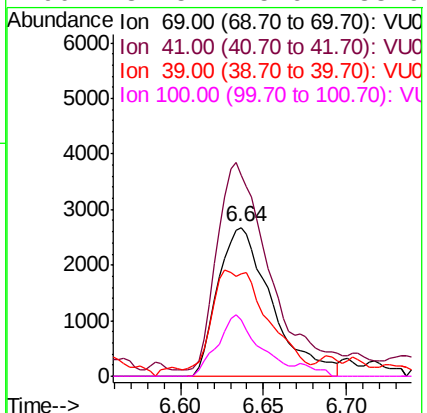
Tgt Ion:	75	Resp:	3198
Ion	Ratio	Lower	Upper
75	100		
53	76.7	63.4	95.2
89	32.2	39.1	58.7#
88	28.6	30.4	45.6#





#47
Methyl methacrylate
Concen: 0.915 ug/l
RT: 6.64 min Scan# 1725
Delta R.T. 0.01 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

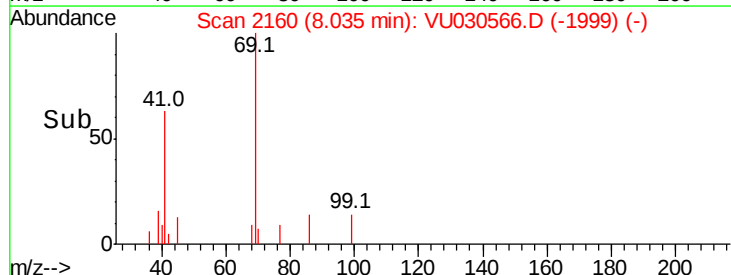
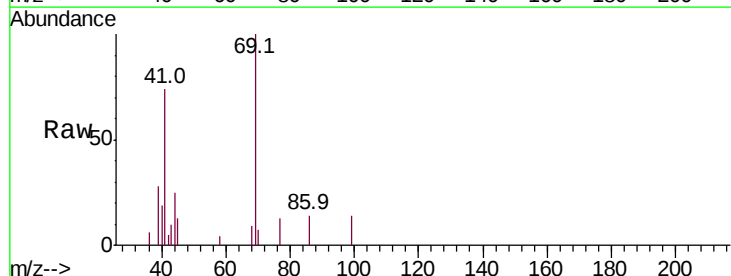
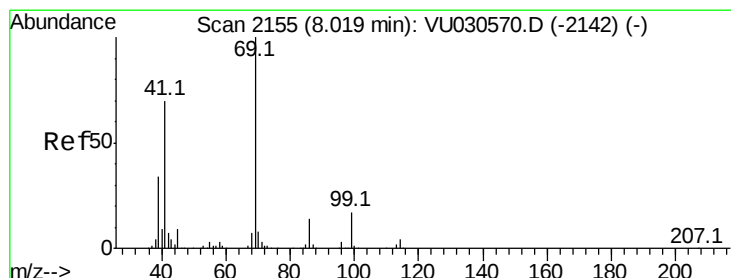
Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	135.6	0.0	258.0	
39	76.1	51.0	76.4	
100	31.5	25.9	38.9	



Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

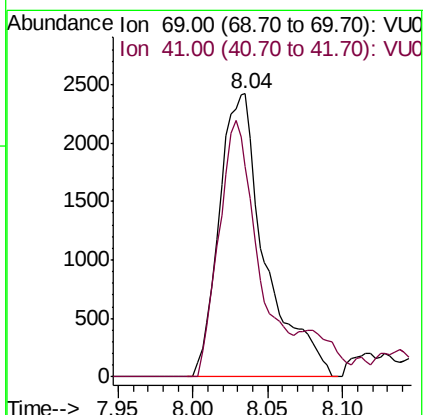
Manual Integrations
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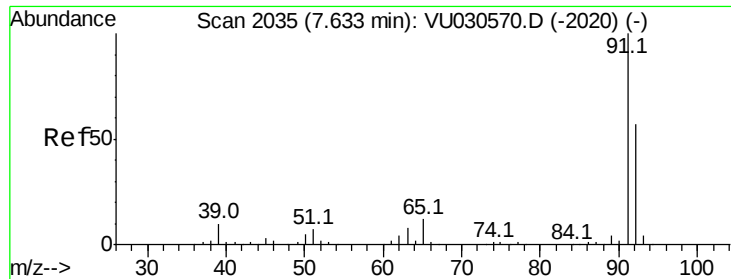
MMDadoda
4/5/2019 2:37:51 PM



#48
Ethyl methacrylate
Concen: 0.418 ug/l
RT: 8.04 min Scan# 2160
Delta R.T. 0.02 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	76.7	36.1	108.5	





#49

Toluene

Concen: 0.490 ug/l

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 92 Resp: 17340

Ion Ratio Lower Upper

92 100

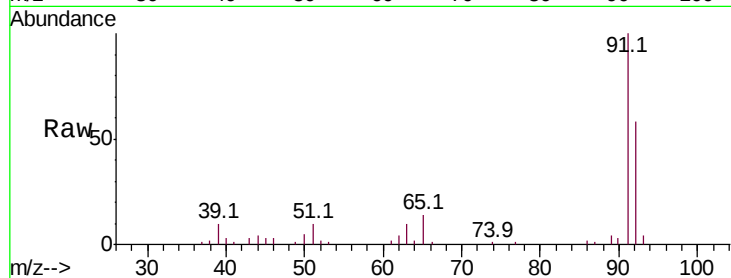
91 177.8 140.2 210.4

Manual Integrations

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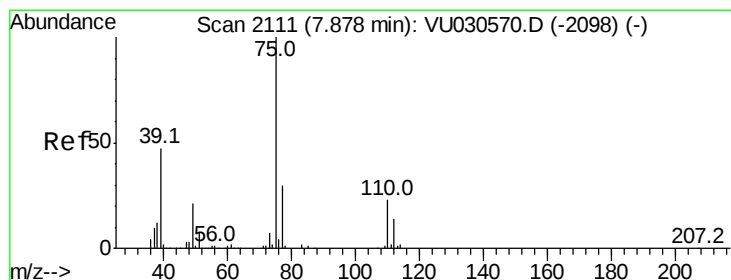
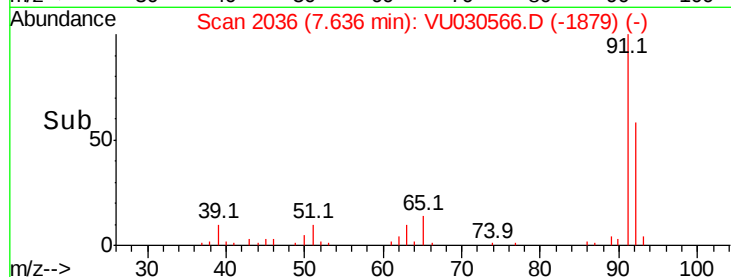
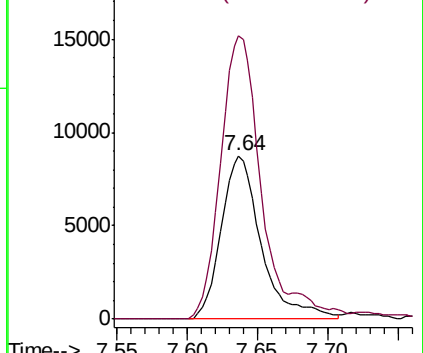
MMDadoda

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Abundance Ion 92.00 (91.70 to 92.70): VU030570.D (-2020) (-)

Ion 91.00 (90.70 to 91.70): VU030570.D (-2020) (-)



#50

t-1,3-Dichloropropene

Concen: 0.505 ug/l

RT: 7.89 min Scan# 2114

Delta R.T. 0.01 min

Lab File: VU030566.D

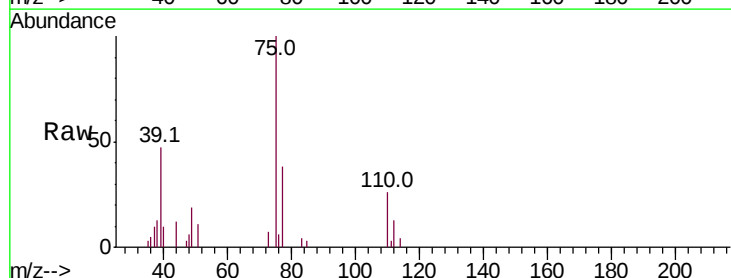
Acq: 30 Mar 2019 09:54

Tgt Ion: 75 Resp: 8479

Ion Ratio Lower Upper

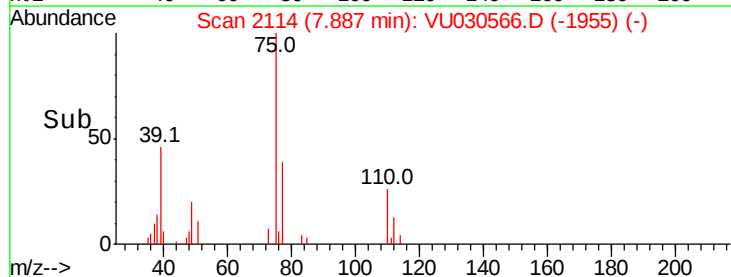
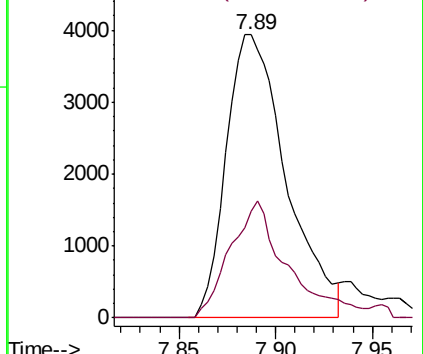
75 100

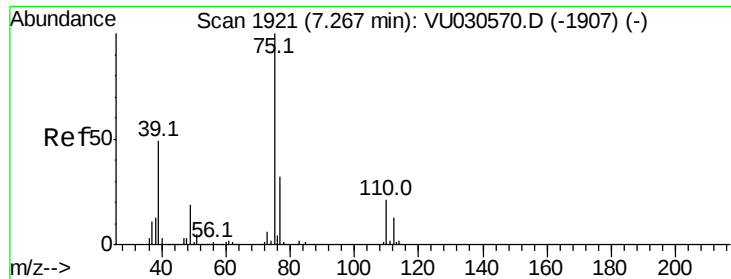
77 37.5 24.4 36.6#



Abundance Ion 75.00 (74.70 to 75.70): VU030570.D (-2098) (-)

Ion 77.00 (76.70 to 77.70): VU030570.D (-2098) (-)





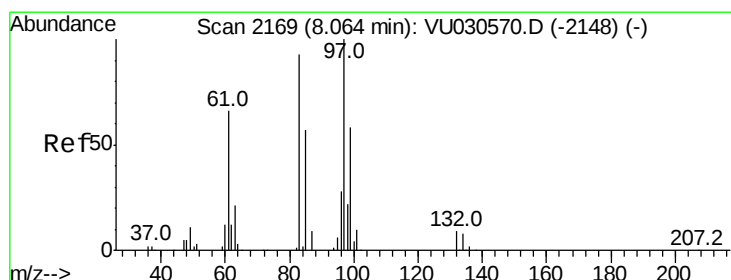
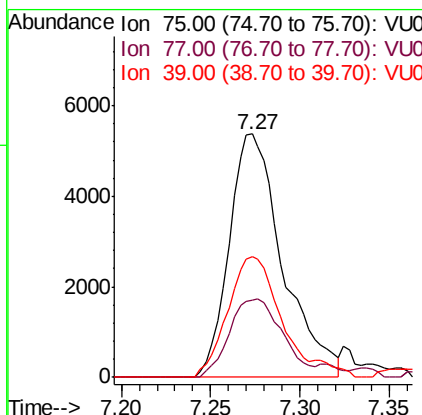
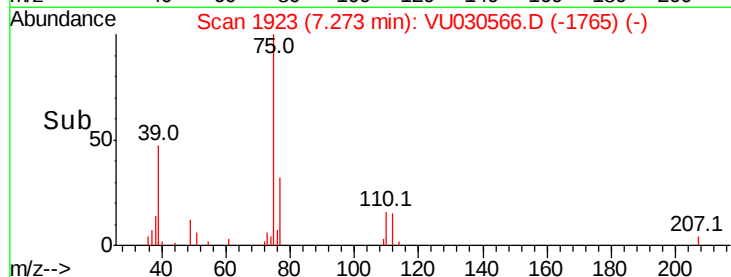
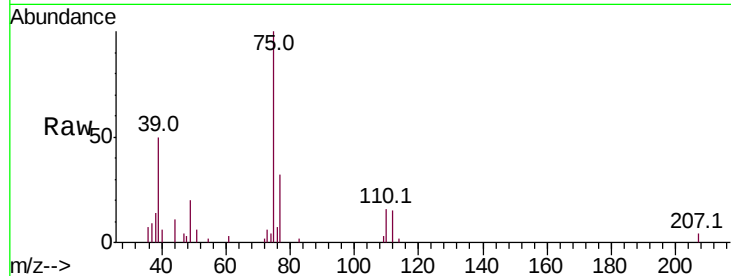
#51
 cis-1,3-Dichloropropene
 Concen: 0.537 ug/l
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.01 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	75	Resp:	11240
Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.8	38.6
39	49.9	39.3	58.9

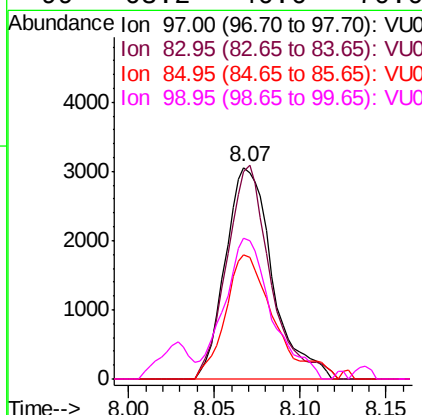
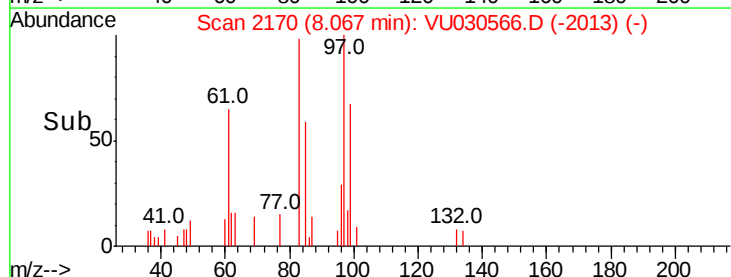
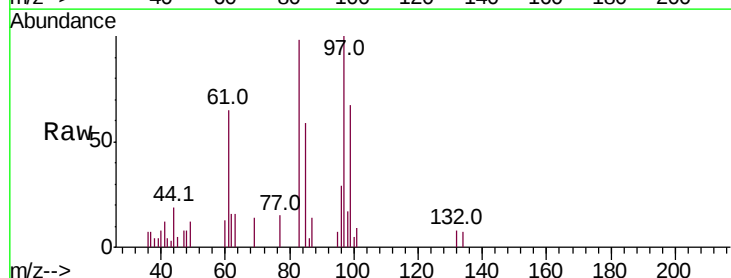
Manual Integrations
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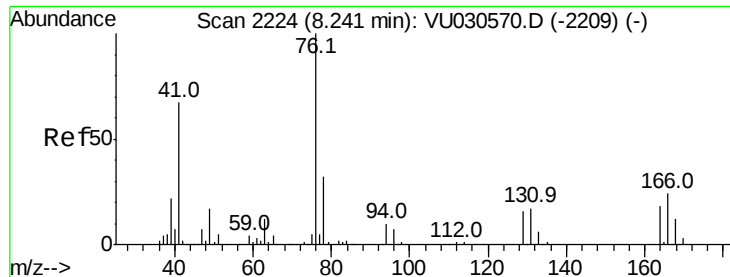
MMDadoda
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#52
 1,1,2-Trichloroethane
 Concen: 0.532 ug/l
 RT: 8.07 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Tgt Ion:	97	Resp:	5806
Ion	Ratio	Lower	Upper
97	100		
83	97.7	74.3	111.5
85	58.5	45.4	68.0
99	63.2	46.6	70.0





#53

1,3-Dichloropropane

Concen: 0.580 ug/l

RT: 8.24 min Scan# 2225

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 76 Resp: 10762

Ion Ratio Lower Upper

76 100

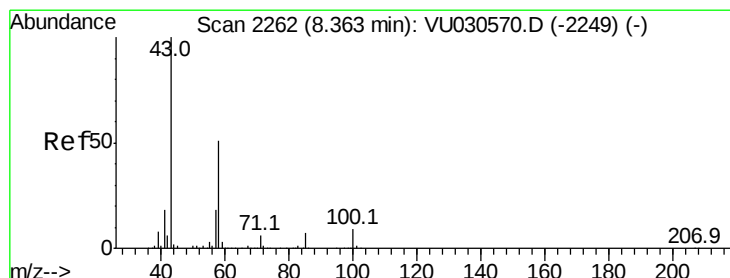
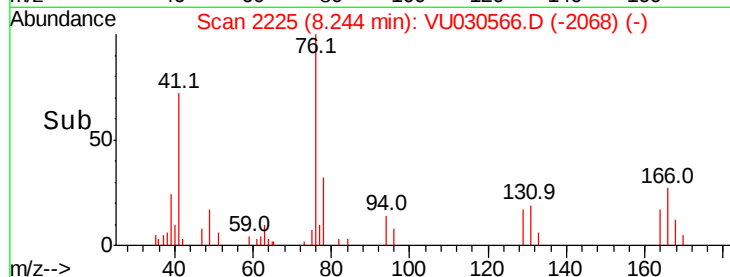
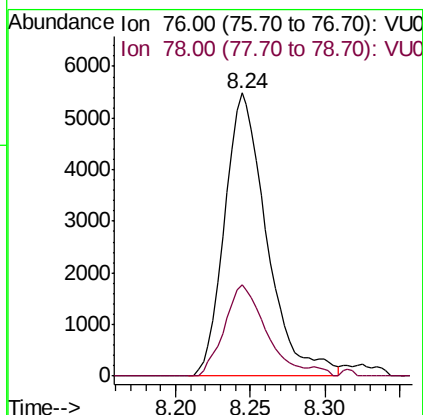
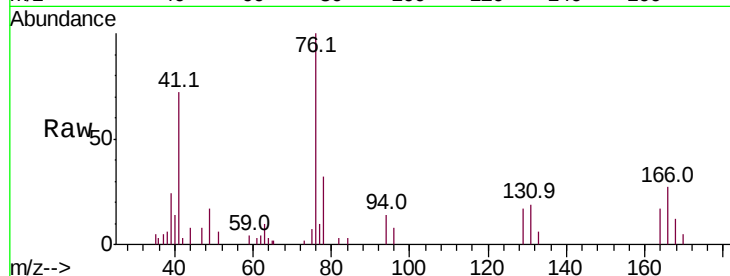
78 31.7 25.3 37.9

Manual Integrations

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#54

2-Hexanone

Concen: 3.756 ug/l

RT: 8.38 min Scan# 2266

Delta R.T. 0.01 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

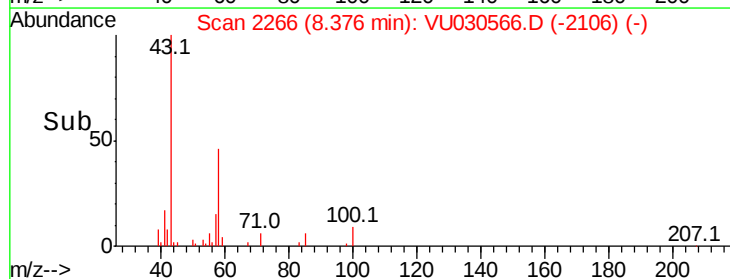
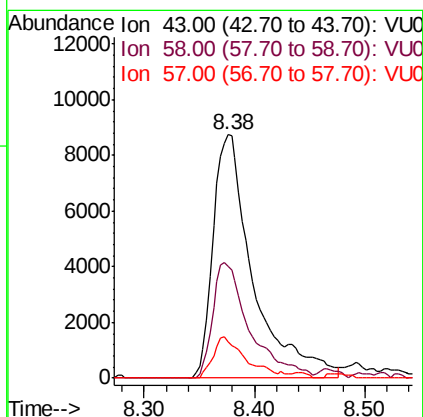
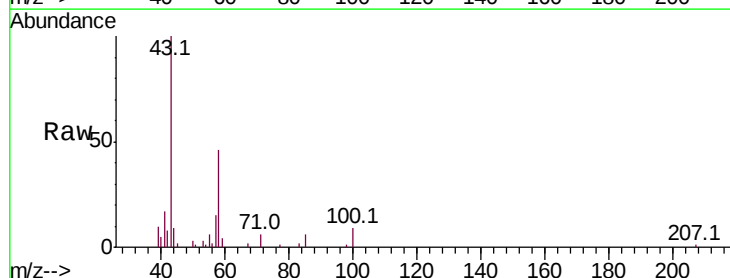
Tgt Ion: 43 Resp: 22010

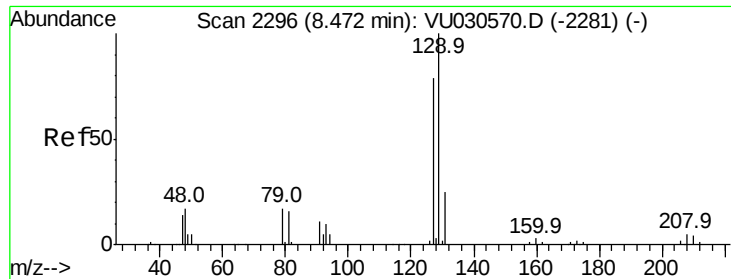
Ion Ratio Lower Upper

43 100

58 43.8 32.5 72.5

57 13.5 0.0 37.6





#55

Dibromochloromethane

Concen: 0.481 ug/l

RT: 8.48 min Scan# 2297

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion:129 Resp: 6250

Ion Ratio Lower Upper

129 100

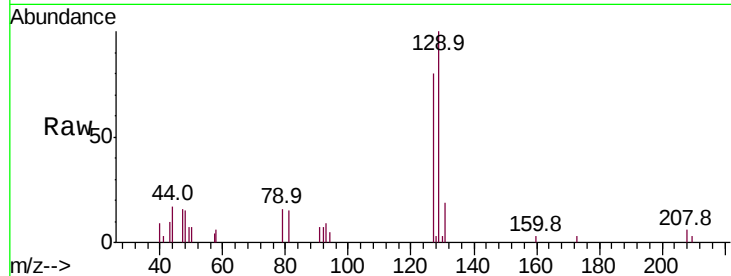
127 84.0 62.2 93.4

Manual Integrations

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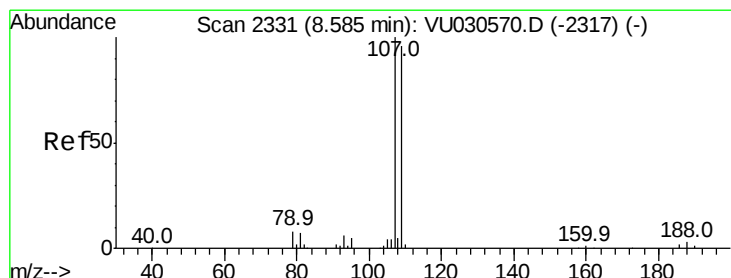
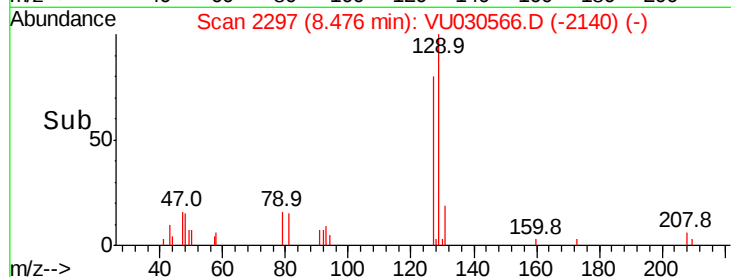
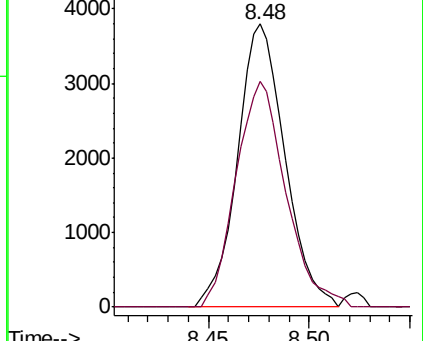
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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#56

1,2-Dibromoethane

Concen: 0.520 ug/l

RT: 8.59 min Scan# 2333

Delta R.T. 0.01 min

Lab File: VU030566.D

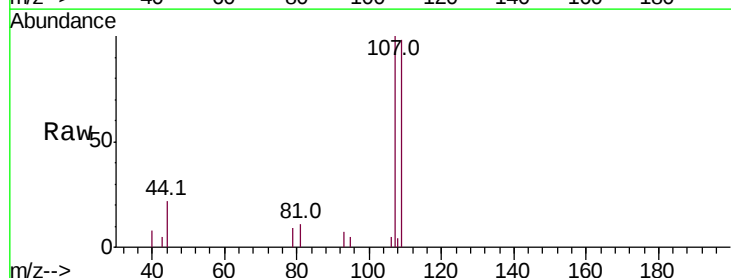
Acq: 30 Mar 2019 09:54

Tgt Ion:107 Resp: 5406

Ion Ratio Lower Upper

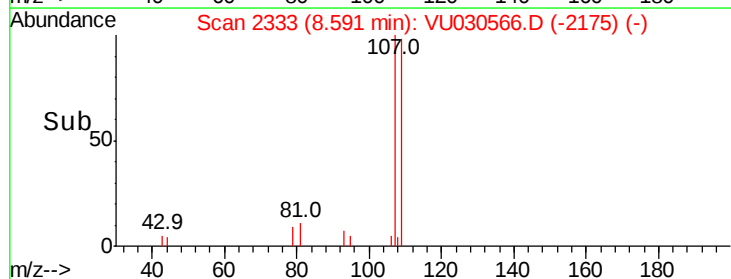
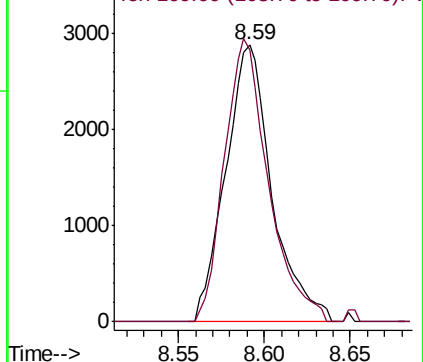
107 100

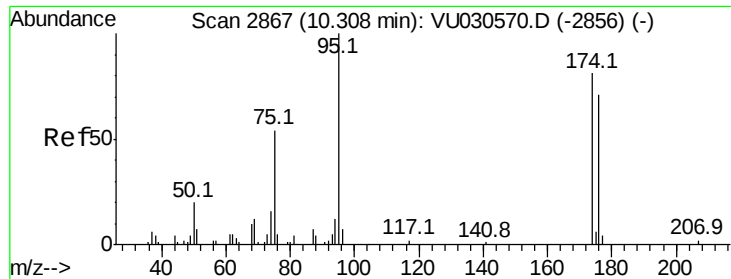
109 97.1 0.0 190.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





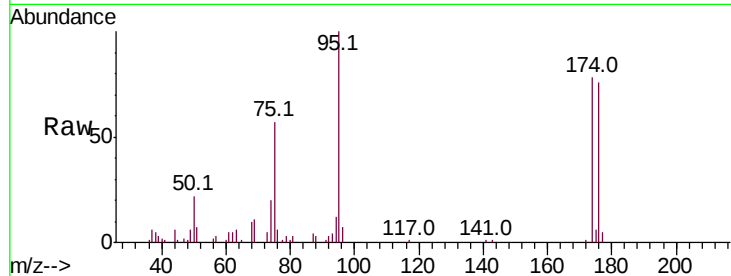
#57
4-Bromofluorobenzene
Concen: 0.520 ug/l
RT: 10.31 min Scan# 2867
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
95	100		
174	77.3	60.5	90.7
176	76.1	57.9	86.9

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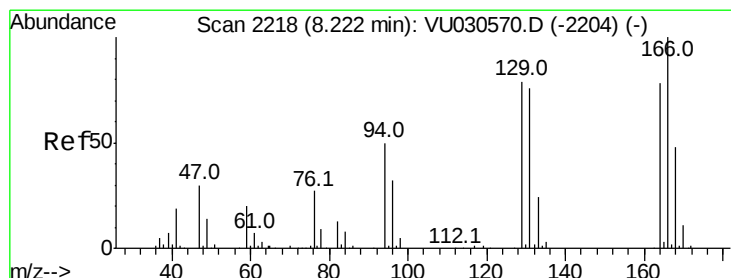
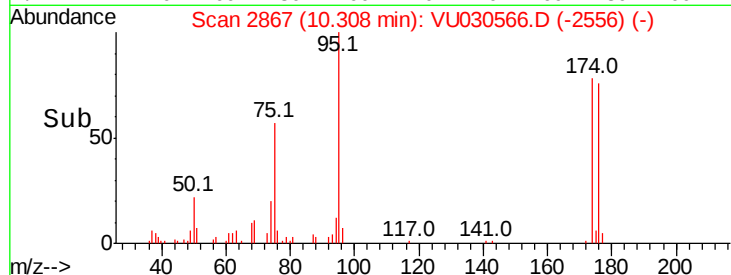
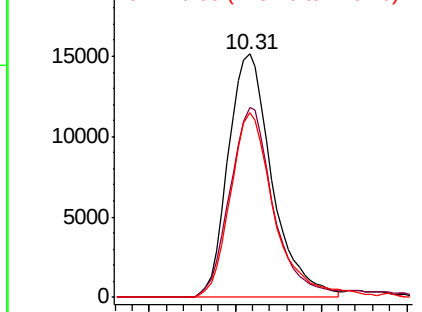


Abundance

Ion 95.00 (94.70 to 95.70): VU030566.D (-2556) (-)

Ion 174.00 (173.70 to 174.70): VU030566.D (-2556) (-)

Ion 176.00 (175.70 to 176.70): VU030566.D (-2556) (-)



#58
Tetrachloroethene
Concen: 0.499 ug/l
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.3	102.4	153.6
129	98.6	81.4	122.0
131	95.8	77.7	116.5

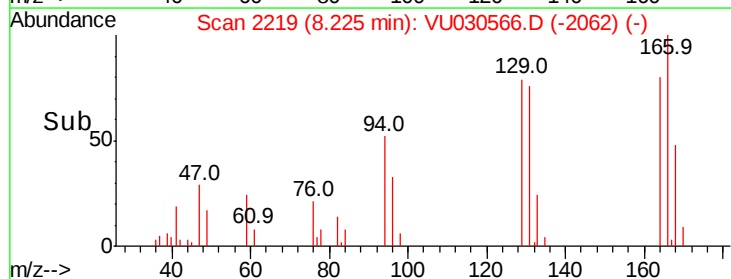
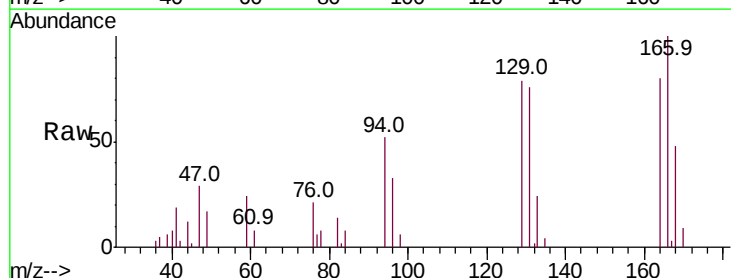
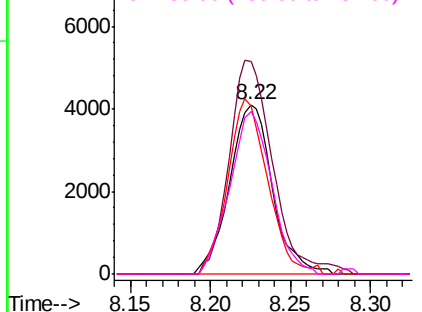
Abundance

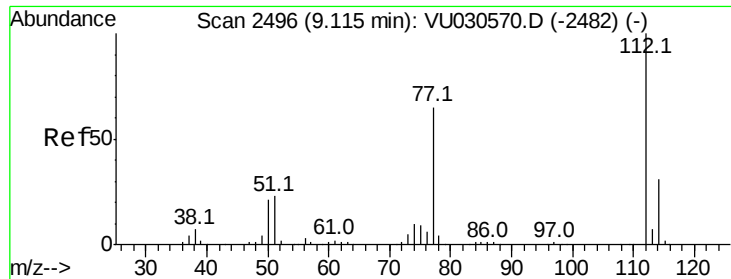
Ion 163.85 (163.55 to 164.55): VU030566.D (-2062) (-)

Ion 165.80 (165.50 to 166.50): VU030566.D (-2062) (-)

Ion 128.90 (128.60 to 129.60): VU030566.D (-2062) (-)

Ion 130.90 (130.60 to 131.60): VU030566.D (-2062) (-)





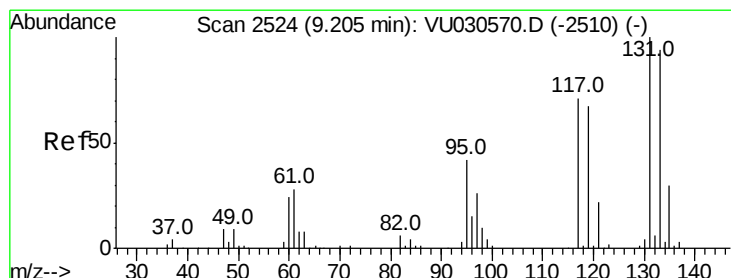
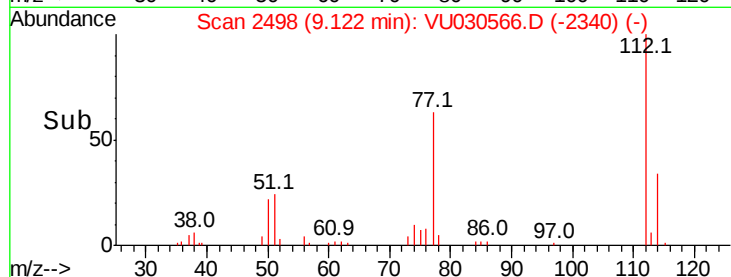
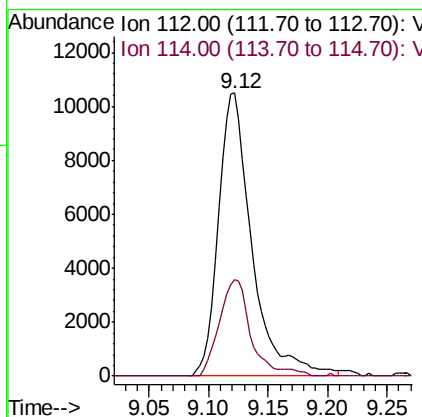
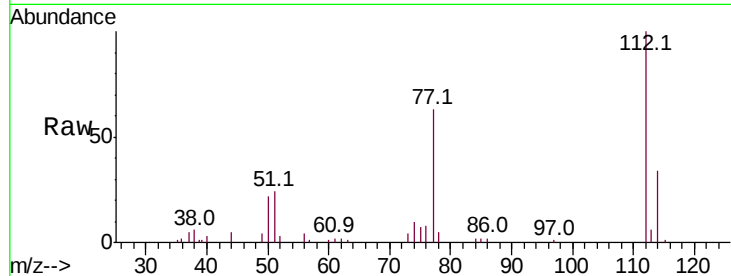
#59
Chlorobenzene
Concen: 0.512 ug/l
RT: 9.12 min Scan# 2498
Delta R.T. 0.01 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
114	34.0	24.9	37.3

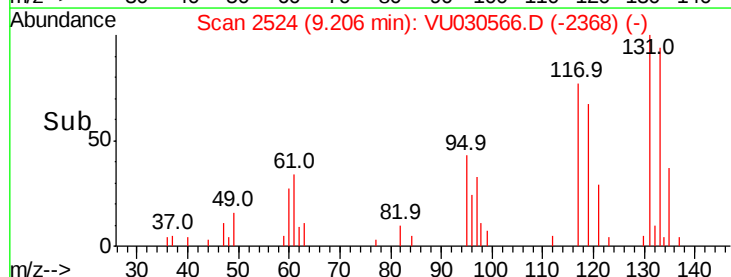
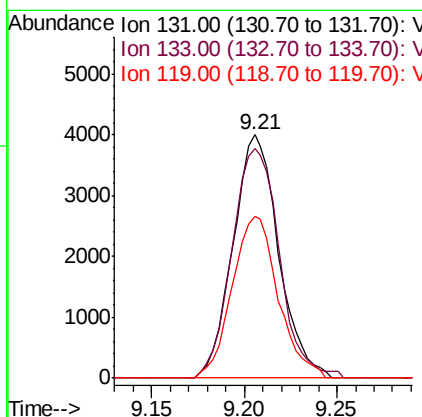
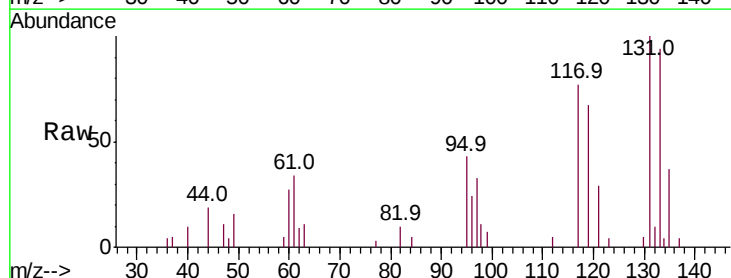
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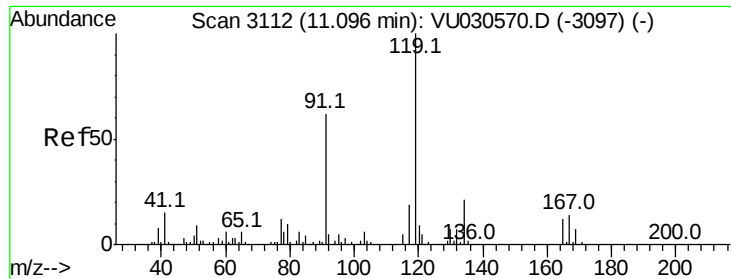
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#60
1,1,1,2-Tetrachloroethane
Concen: 0.487 ug/l
RT: 9.21 min Scan# 2524
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.3	77.5	116.3
119	67.1	53.2	79.8





#61

Pentachloroethane

Concen: 0.513 ug/l

RT: 11.10 min Scan# 3112

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion:117 Resp: 5613

Ion Ratio Lower Upper

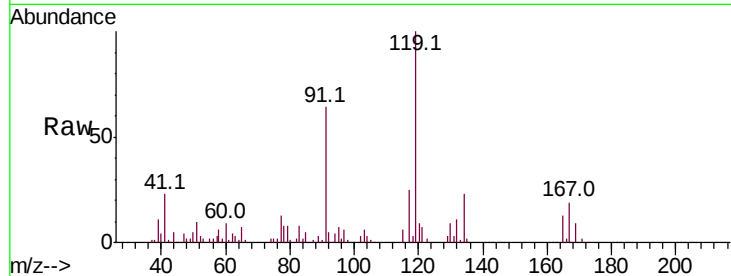
117 100

167 81.0 62.6 93.8

Manual Integrations
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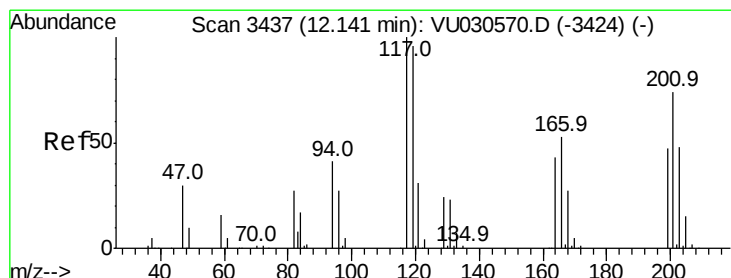
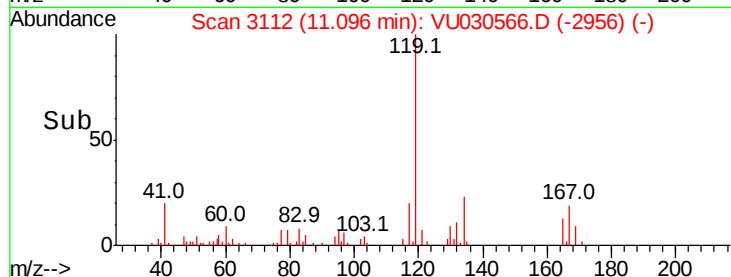
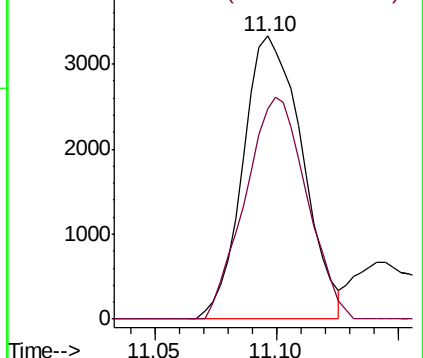
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Abundance Ion 116.80 (116.50 to 117.50): V

Ion 166.70 (166.40 to 167.40): V



#62

Hexachloroethane

Concen: 0.435 ug/l

RT: 12.14 min Scan# 3436

Delta R.T. -0.00 min

Lab File: VU030566.D

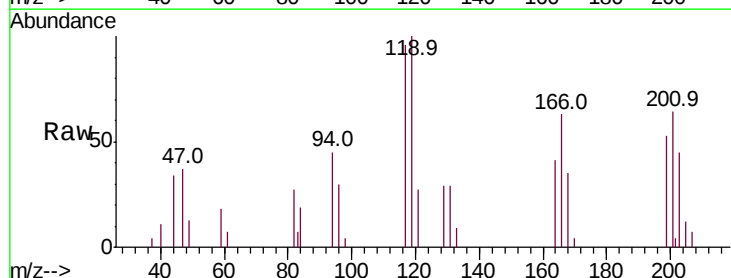
Acq: 30 Mar 2019 09:54

Tgt Ion:117 Resp: 4661

Ion Ratio Lower Upper

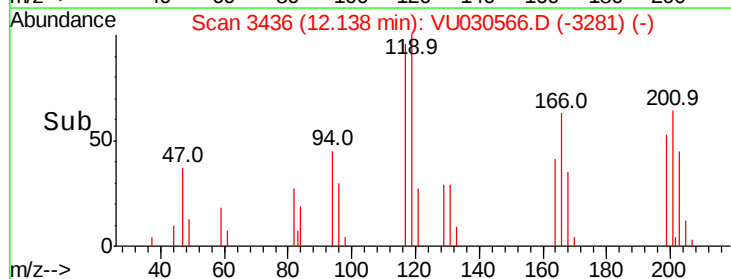
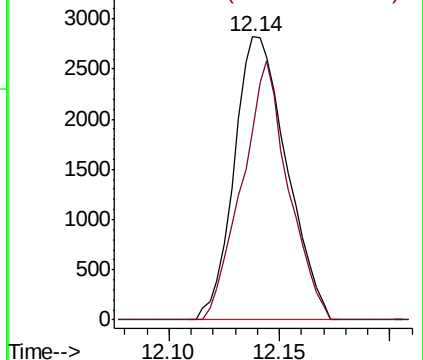
117 100

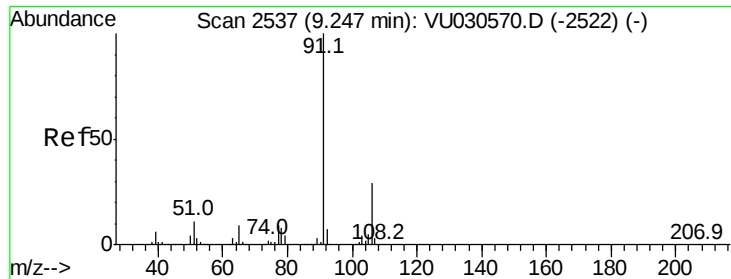
201 80.5 59.1 88.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V





#63

Ethyl Benzene

Concen: 0.459 ug/l

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 30625

Ion Ratio Lower Upper

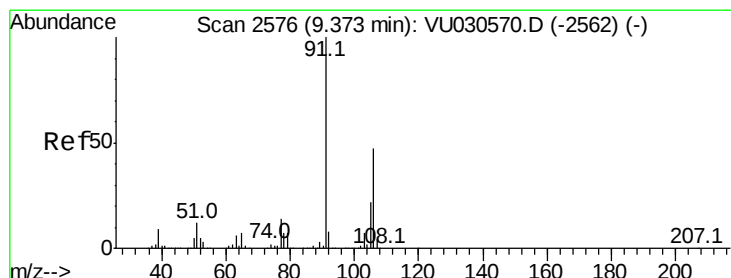
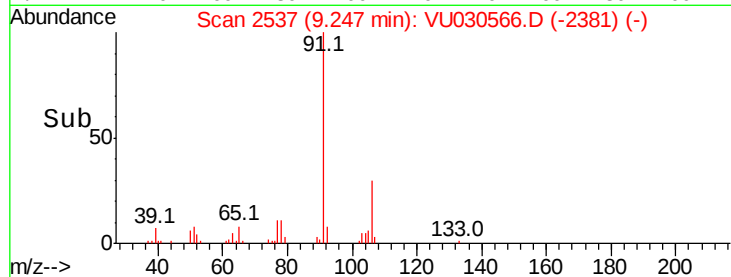
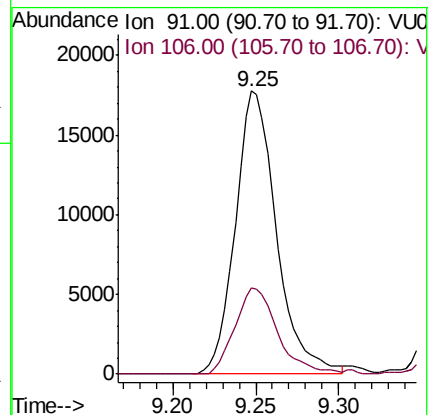
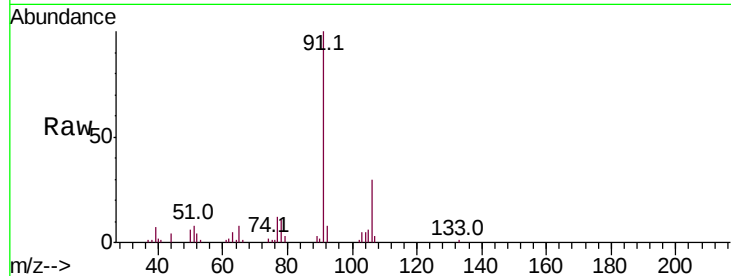
91 100

106 30.3 23.1 34.7

Manual Integrations
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#64

m/p-Xylenes

Concen: 0.842 ug/l

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030566.D

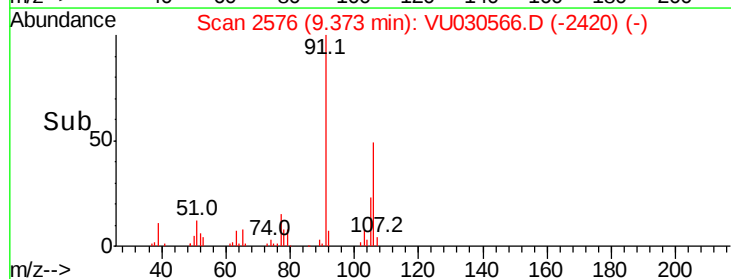
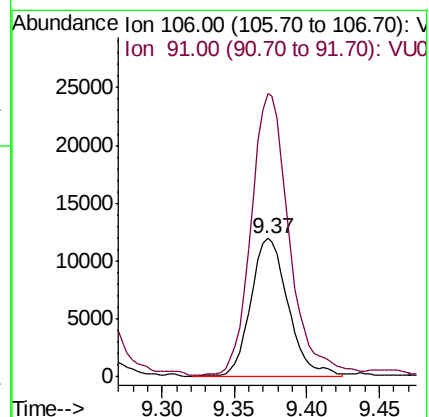
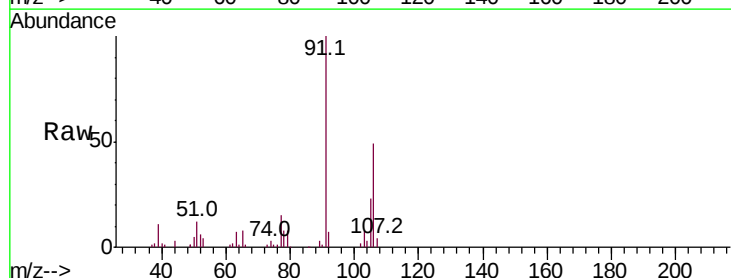
Acq: 30 Mar 2019 09:54

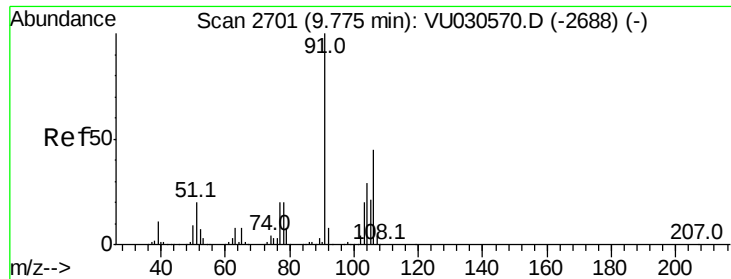
Tgt Ion: 106 Resp: 21709

Ion Ratio Lower Upper

106 100

91 205.9 179.4 269.0





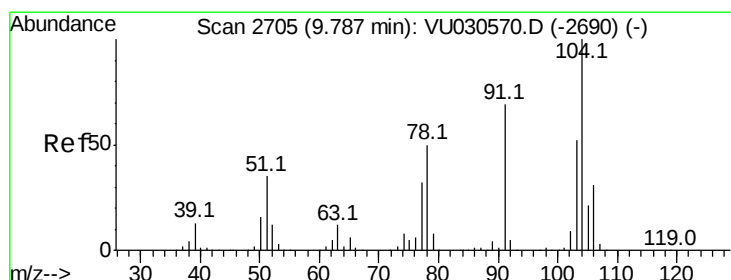
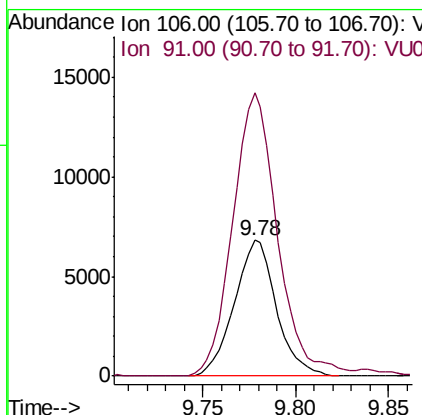
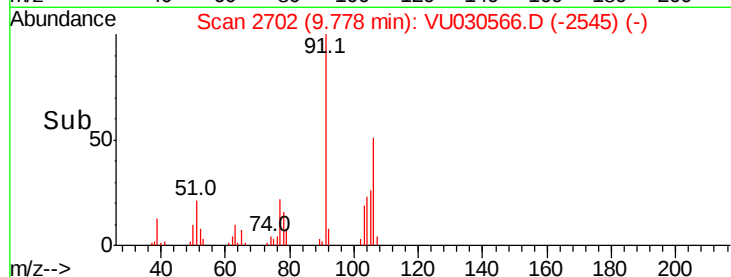
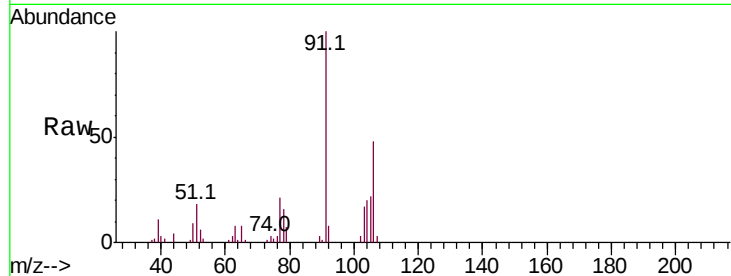
#65
o-Xylene
Concen: 0.424 ug/l
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion:106 Resp: 10727
Ion Ratio Lower Upper
106 100
91 221.6 115.5 346.4

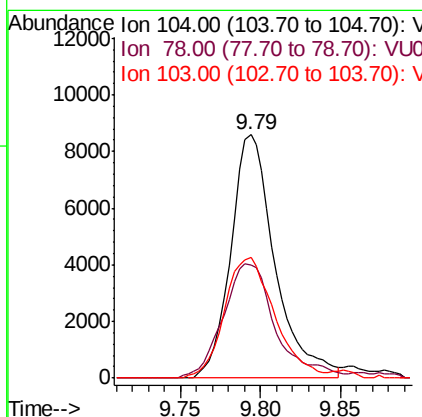
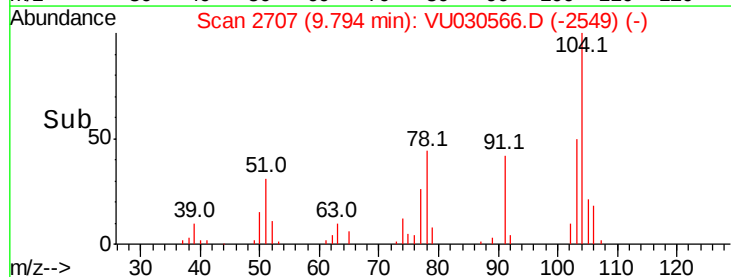
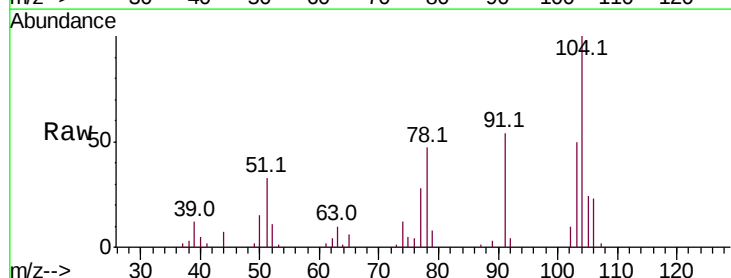
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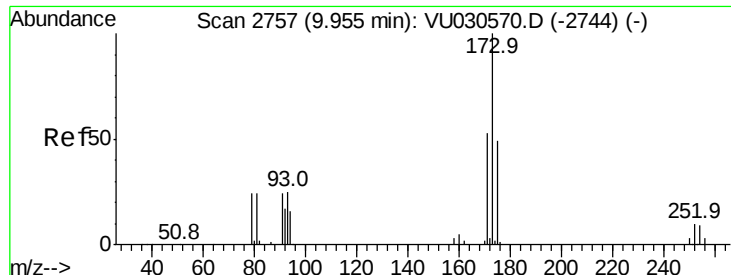
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#66
Styrene
Concen: 0.387 ug/l
RT: 9.79 min Scan# 2707
Delta R.T. 0.01 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion:104 Resp: 16177
Ion Ratio Lower Upper
104 100
78 56.1 42.3 63.5
103 56.8 44.7 67.1





#67

Bromoform

Concen: 0.491 ug/l

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampled :

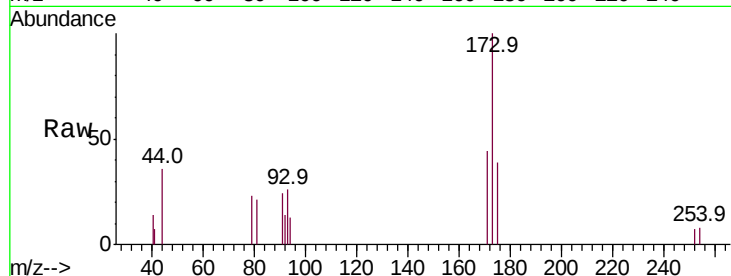
VSTDIC0.5

Tot Ion:	173	Resp:	3612
Ion Ratio	Lower	Upper	
173	100		
175	46.3	38.6	57.8
254	5.6	6.9	10.3#

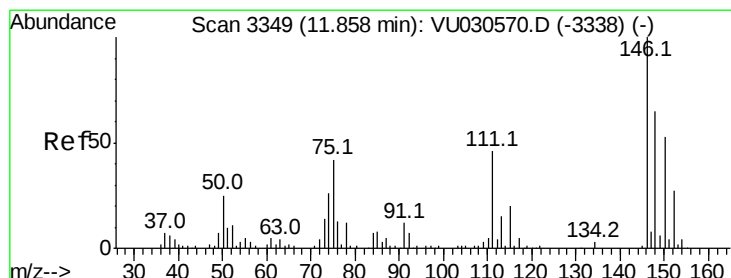
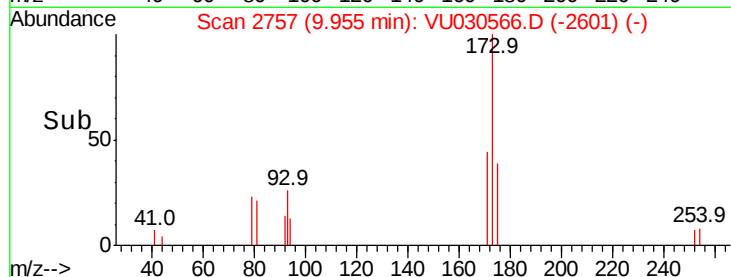
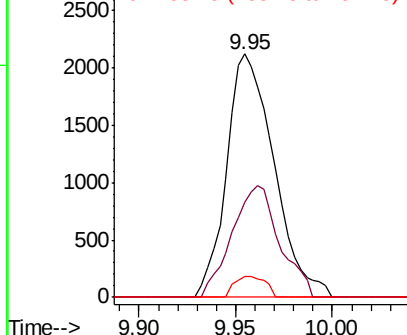
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 0.491 ug/l

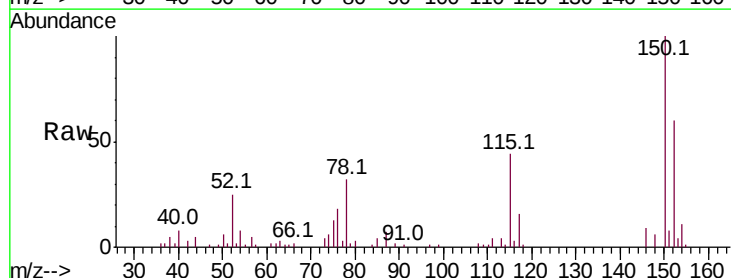
RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

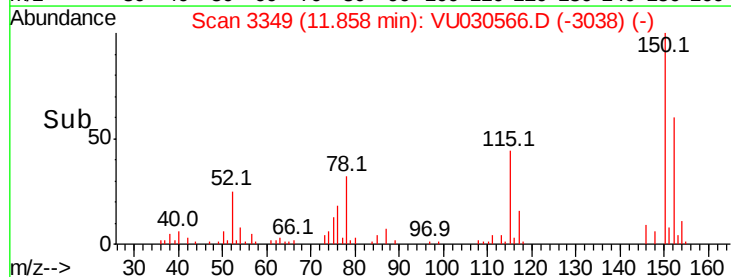
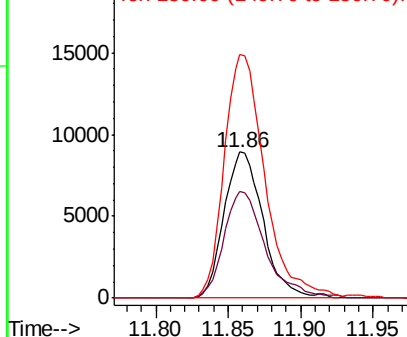
Lab File: VU030566.D

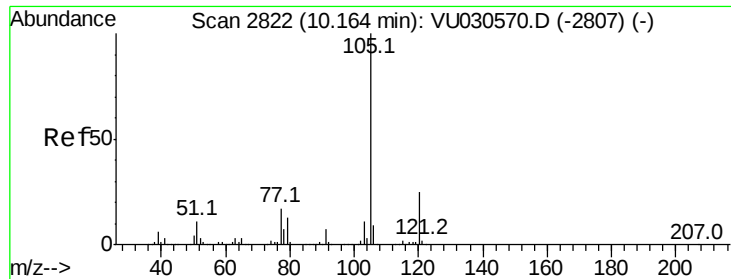
Acq: 30 Mar 2019 09:54

Tgt Ion:	152	Resp:	16712
Ion Ratio	Lower	Upper	
152	100		
115	77.7	0.0	136.2
150	172.9	0.0	634.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 0.438 ug/l

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 29153

Ion Ratio Lower Upper

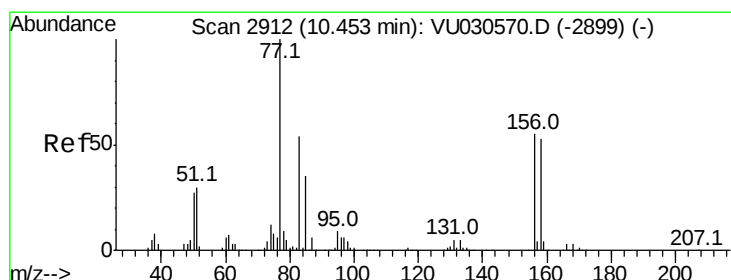
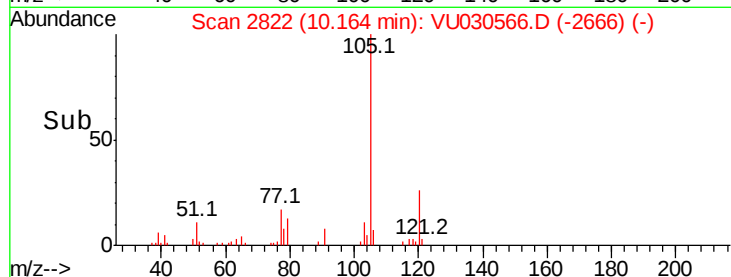
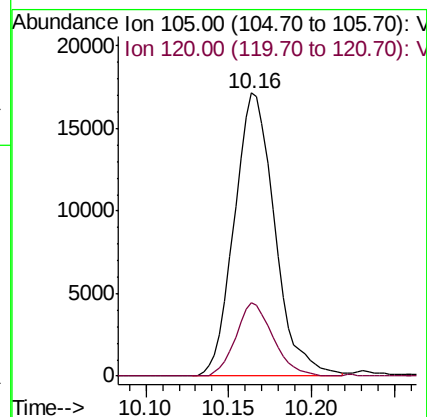
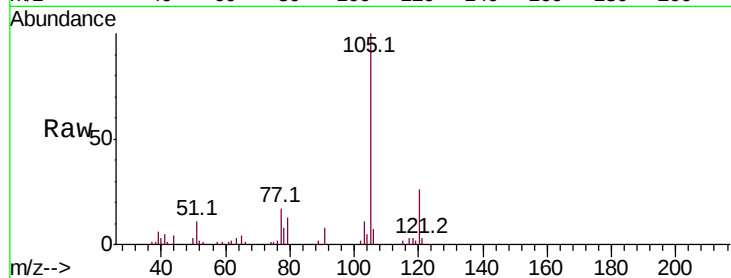
105 100

120 23.9 12.6 37.6

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#70

1,1,2,2-Tetrachloroethane

Concen: 0.553 ug/l

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

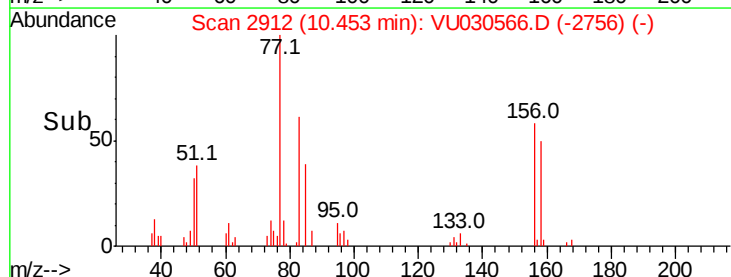
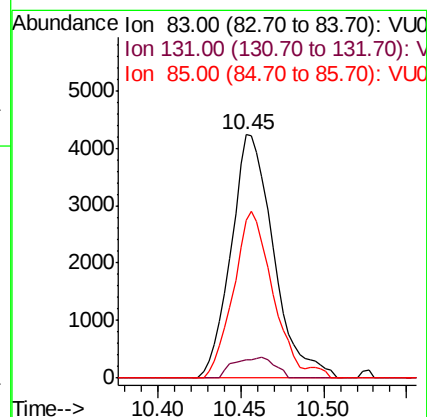
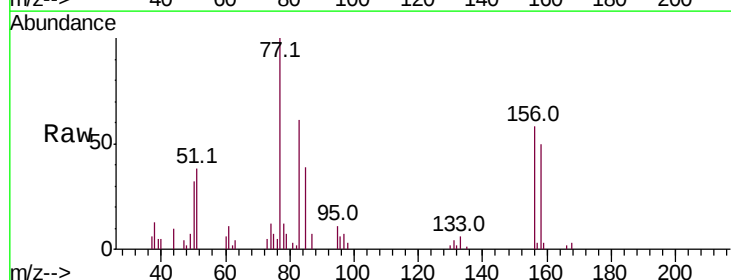
Tgt Ion: 83 Resp: 7561

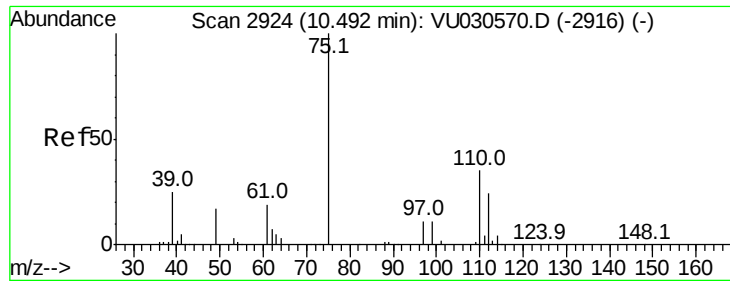
Ion Ratio Lower Upper

83 100

131 8.1 7.0 10.6

85 62.4 51.0 76.4





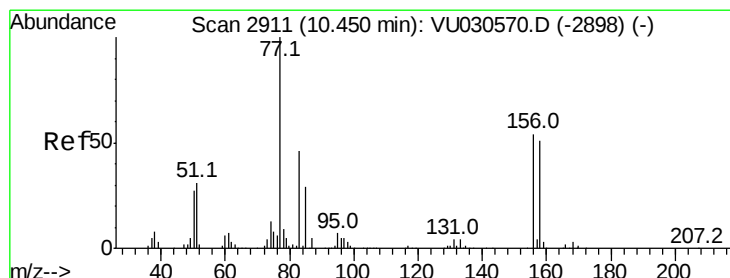
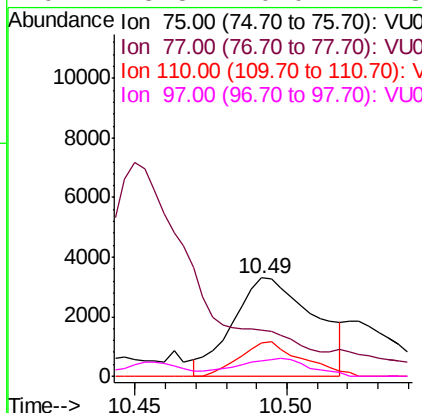
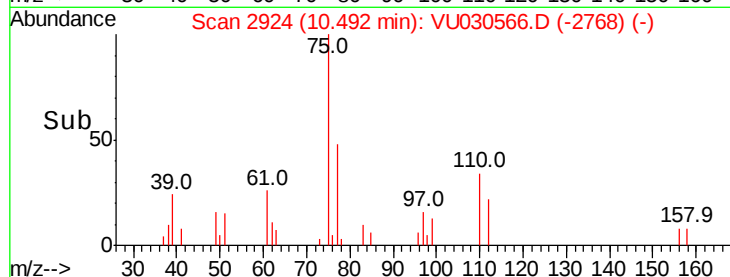
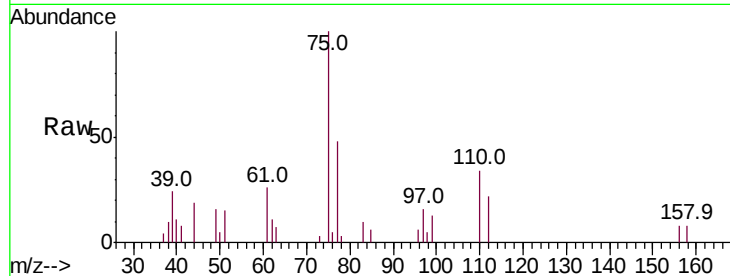
#71
 1,2,3-Trichloropropane
 Concen: 0.622 ug/l m
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Instrument :
 MSVOA_U
 ClientSampled :
 VSTDIC0.5

Tot Ion:	75	Resp:	6167
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	26.6	0.0	83.8
97	15.8	0.0	42.8

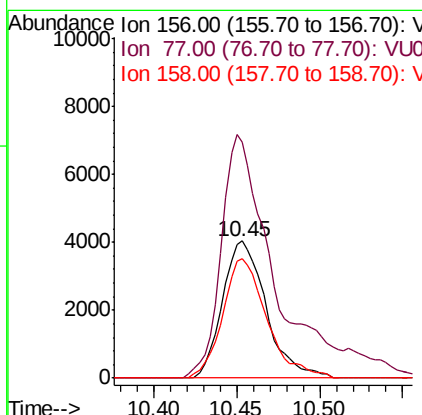
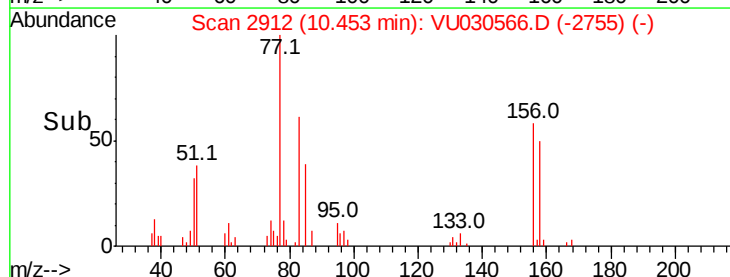
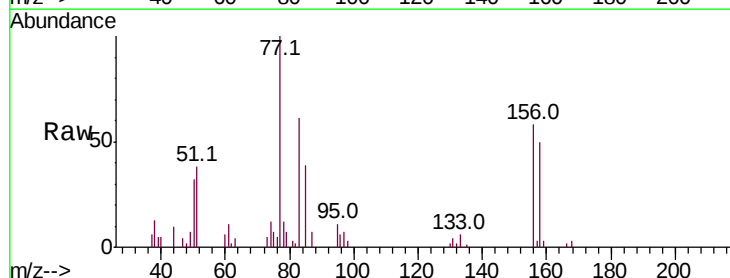
Manual Integrations
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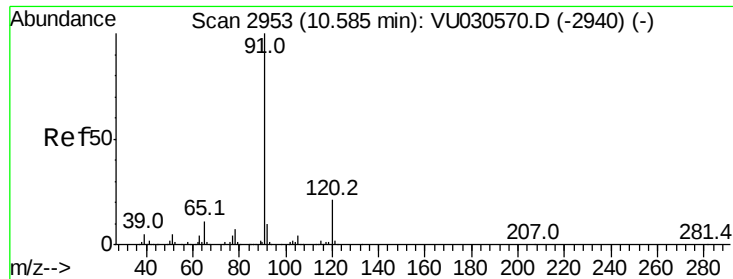
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#72
 Bromobenzene
 Concen: 0.432 ug/l
 RT: 10.45 min Scan# 2912
 Delta R.T. 0.00 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Tgt Ion:	156	Resp:	7374
Ion	Ratio	Lower	Upper
156	100		
77	225.7	0.0	363.0
158	88.2	0.0	193.2





#73

n-propylbenzene

Concen: 0.382 ug/l

RT: 10.59 min Scan# 2954

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion:120 Resp: 7129

Ion Ratio Lower Upper

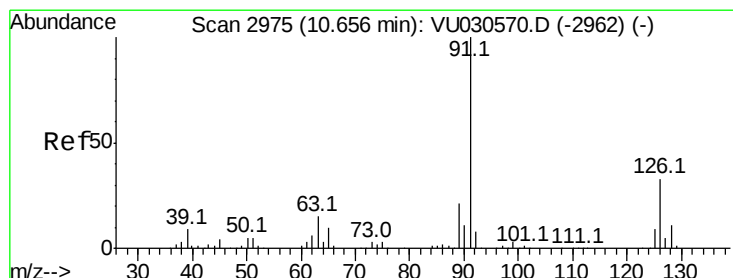
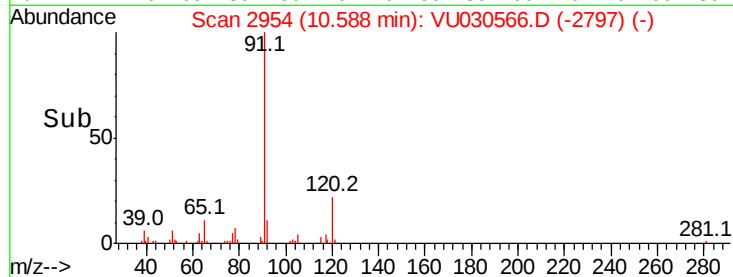
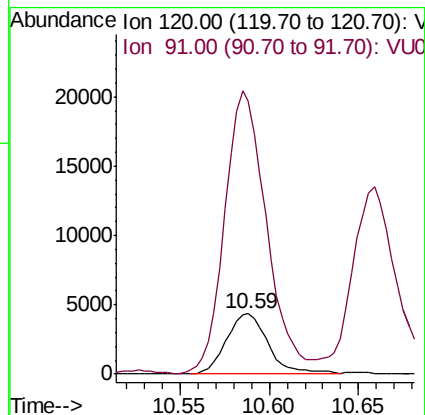
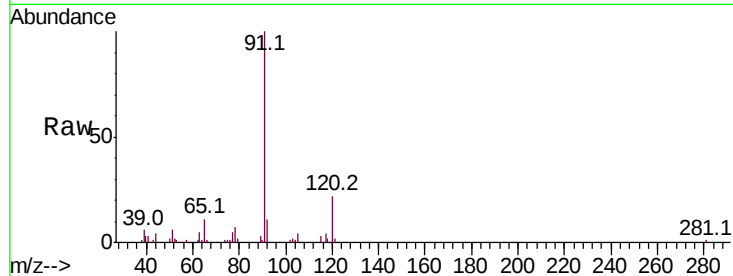
120 100

91 468.9 371.6 557.4

Manual Integrations
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#74

2-Chlorotoluene

Concen: 0.388 ug/l

RT: 10.66 min Scan# 2977

Delta R.T. 0.01 min

Lab File: VU030566.D

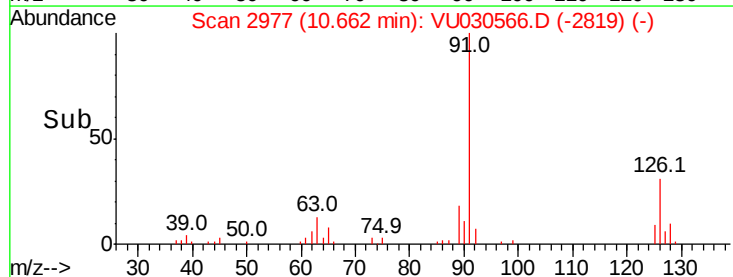
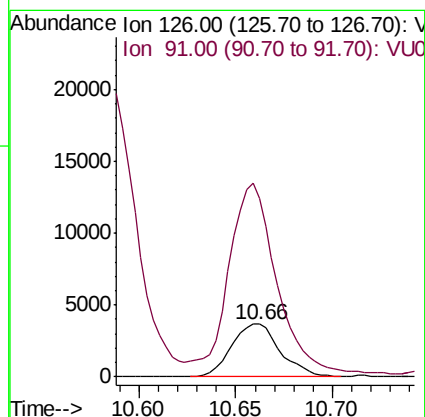
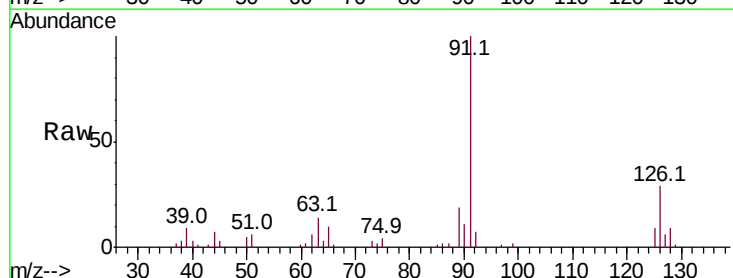
Acq: 30 Mar 2019 09:54

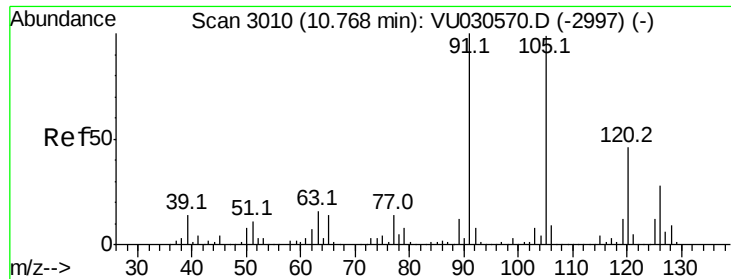
Tgt Ion:126 Resp: 6367

Ion Ratio Lower Upper

126 100

91 360.0 0.0 656.8





#75

1,3,5-Trimethylbenzene

Concen: 0.378 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampled :

VSTDIC0.5

Tot Ion:105 Resp: 21334

Ion Ratio Lower Upper

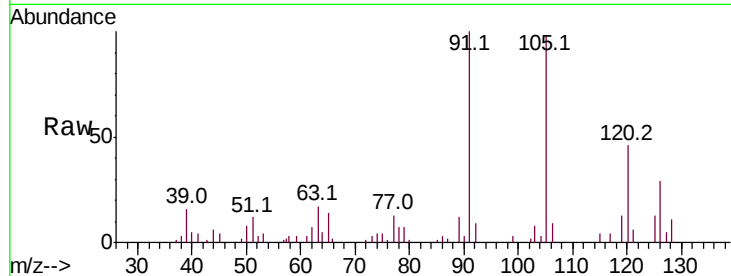
105 100

120 47.3 37.6 56.4

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

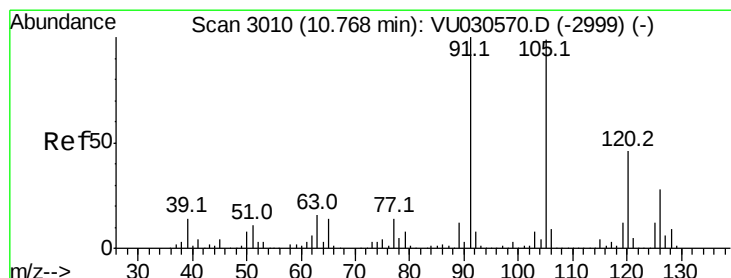
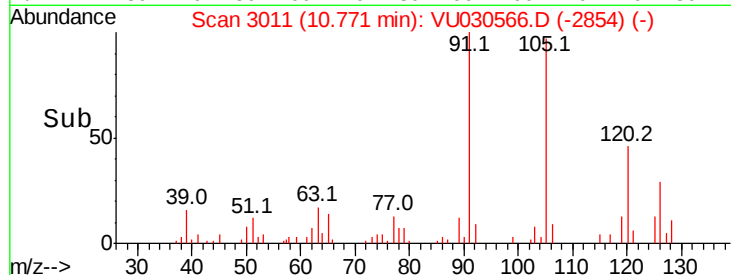
15000

10000

5000

0

Time-->



#76

4-Chlorotoluene

Concen: 0.408 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU030566.D

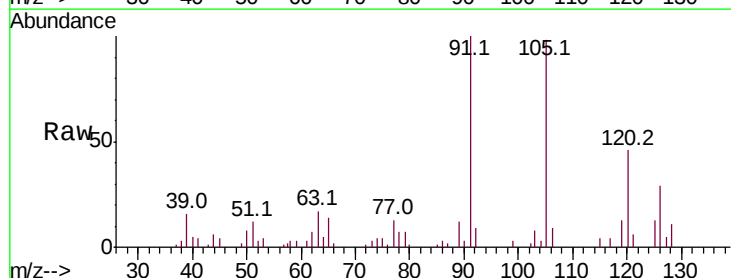
Acq: 30 Mar 2019 09:54

Tgt Ion:126 Resp: 6799

Ion Ratio Lower Upper

126 100

91 348.5 0.0 721.6



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0

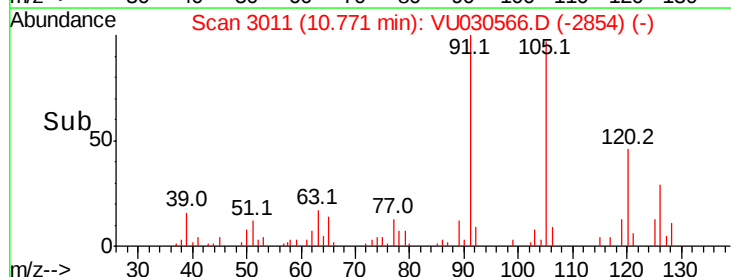
15000

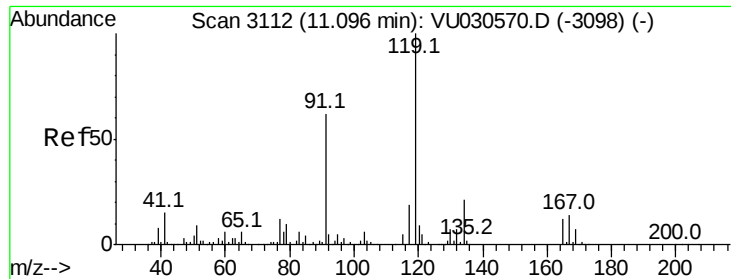
10000

5000

0

Time-->





#77

tert-Butylbenzene

Concen: 0.395 ug/l

RT: 11.10 min Scan# 3112

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion:119 Resp: 21728

Ion Ratio Lower Upper

119 100

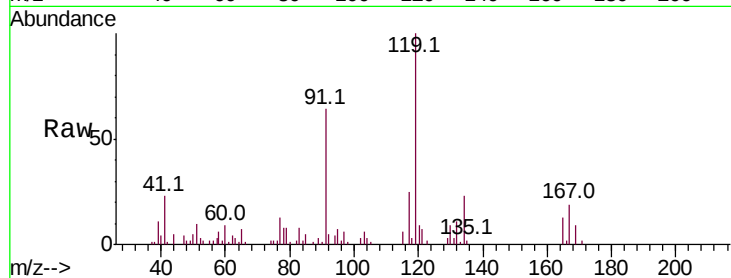
91 64.3 30.9 92.8

134 23.7 17.6 26.4

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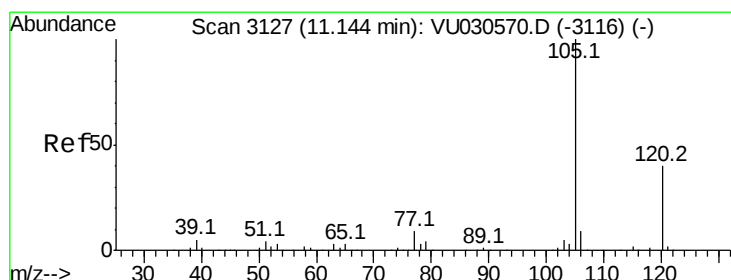
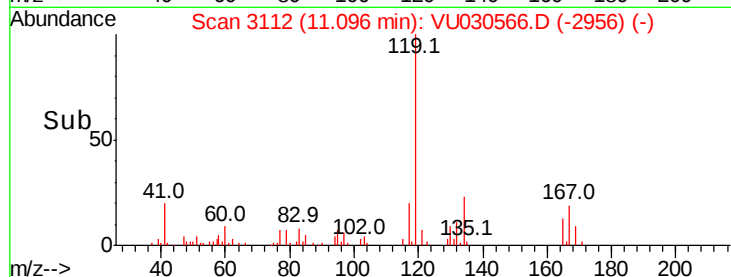
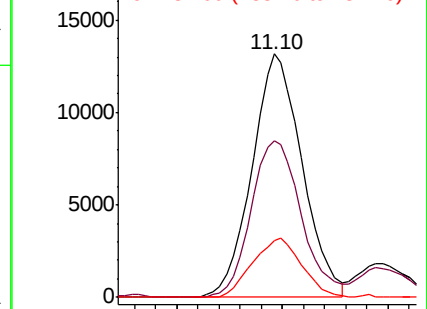
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VU0

Ion 134.00 (133.70 to 134.70): V



#78

1,2,4-Trimethylbenzene

Concen: 0.394 ug/l

RT: 11.15 min Scan# 3128

Delta R.T. 0.00 min

Lab File: VU030566.D

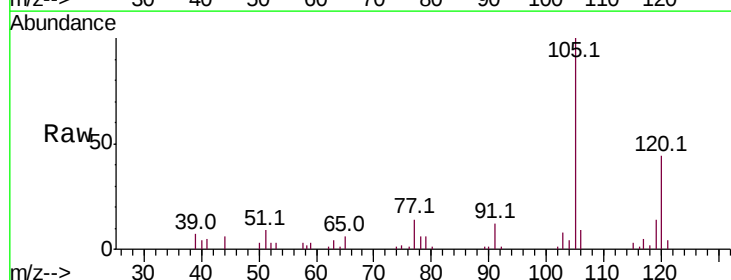
Acq: 30 Mar 2019 09:54

Tgt Ion:105 Resp: 22557

Ion Ratio Lower Upper

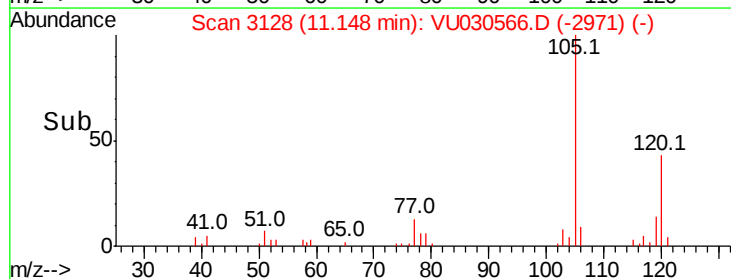
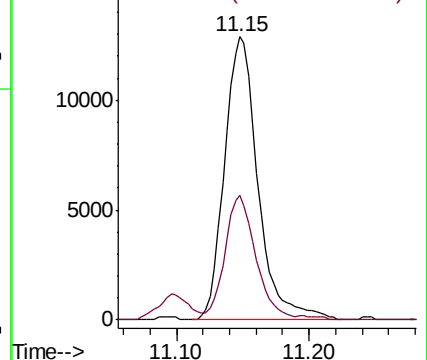
105 100

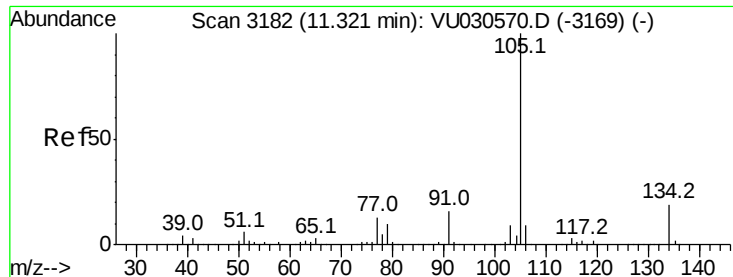
120 38.6 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





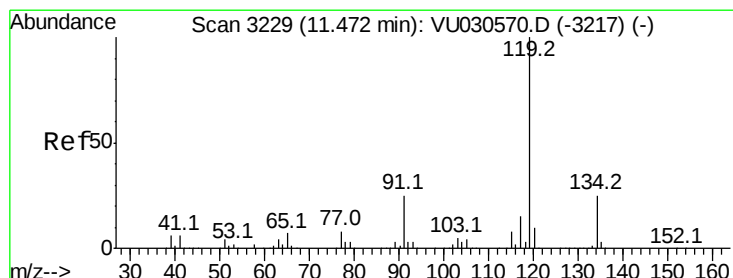
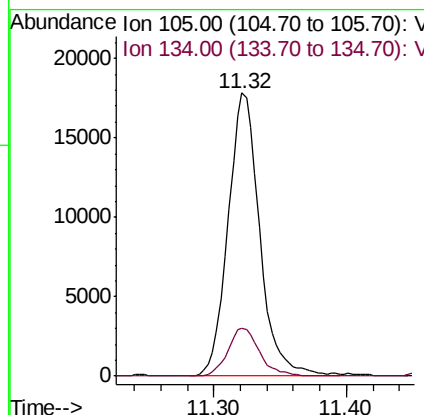
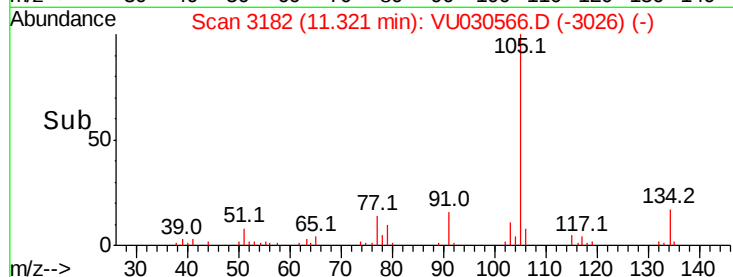
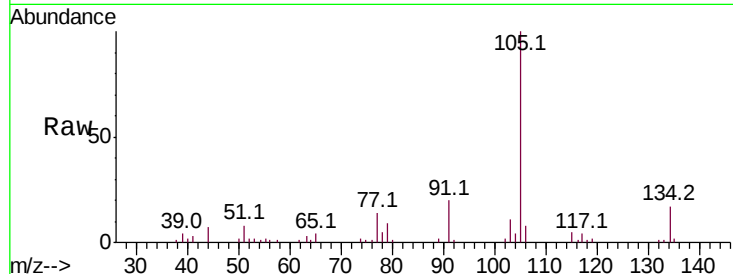
#79
 sec-Butylbenzene
 Concen: 0.402 ug/l
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
105	100		
134	16.9	14.7	22.1

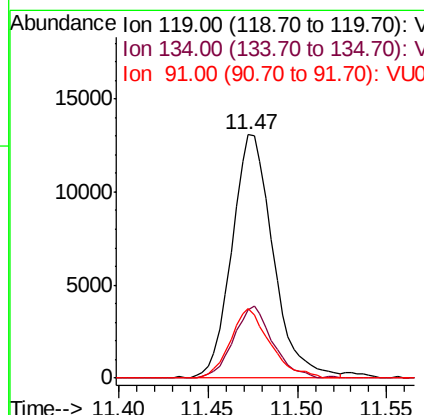
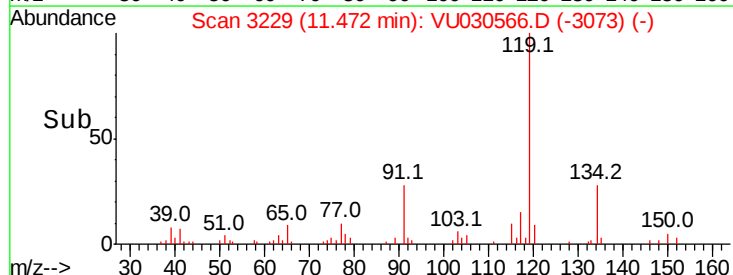
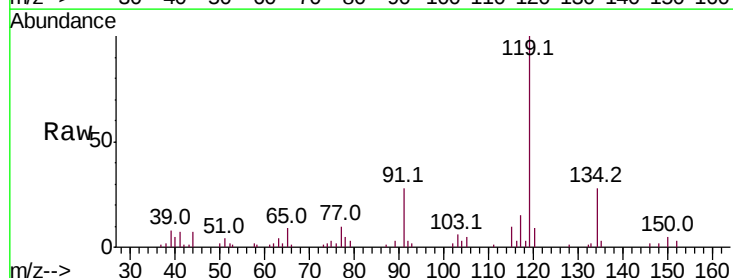
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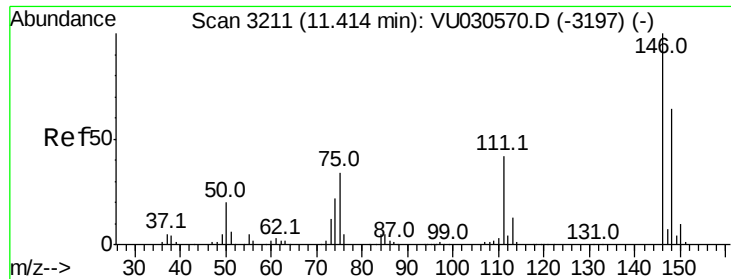
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#81
 p-Isopropyltoluene
 Concen: 0.345 ug/l
 RT: 11.47 min Scan# 3229
 Delta R.T. 0.00 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.9	20.6	31.0
91	27.5	20.4	30.6





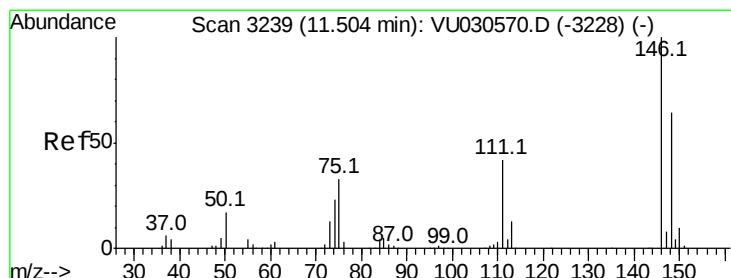
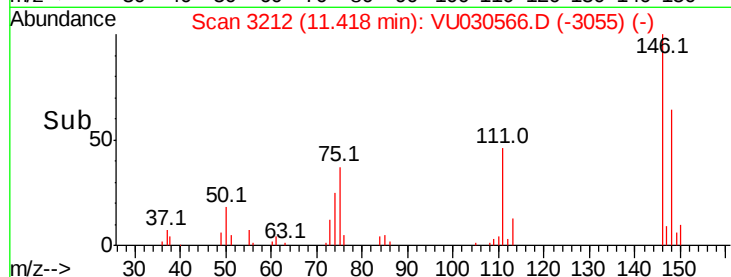
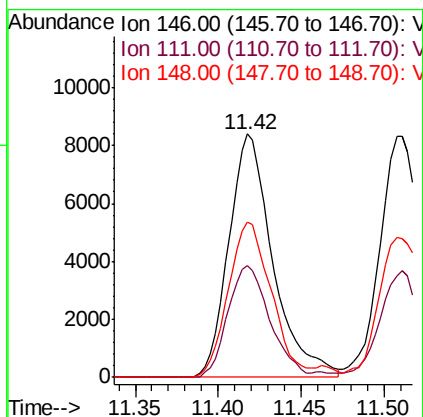
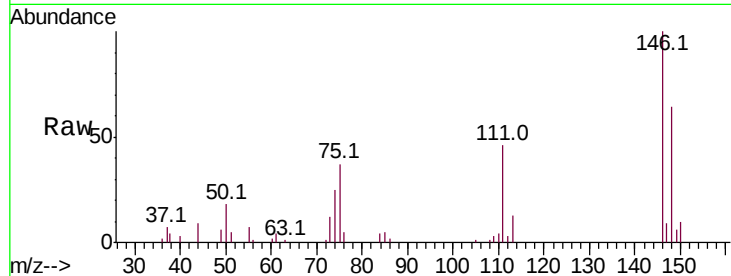
#82
 1,3-Dichlorobenzene
 Concen: 0.451 ug/l
 RT: 11.42 min Scan# 3212
 Delta R.T. 0.00 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Instrument :
 MSVOA_U
 ClientSampled :
 VSTDIC0.5

Tot Ion:146 Resp: 15513
 Ion Ratio Lower Upper
 146 100
 111 43.7 34.0 51.0
 148 62.2 51.0 76.6

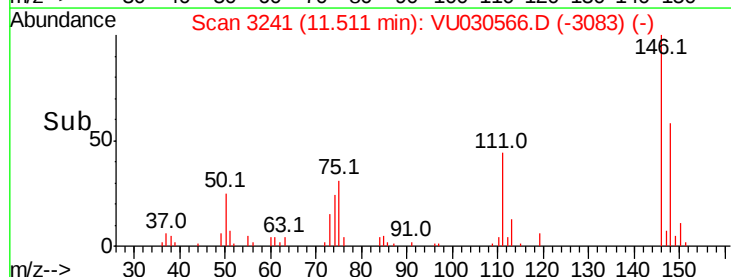
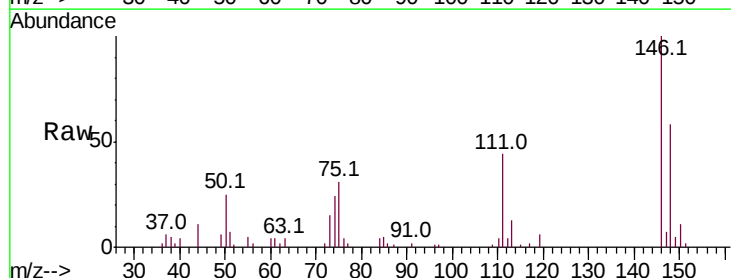
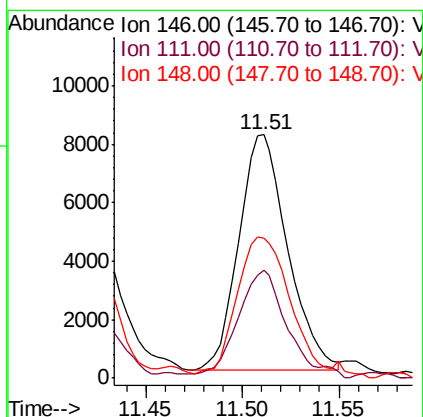
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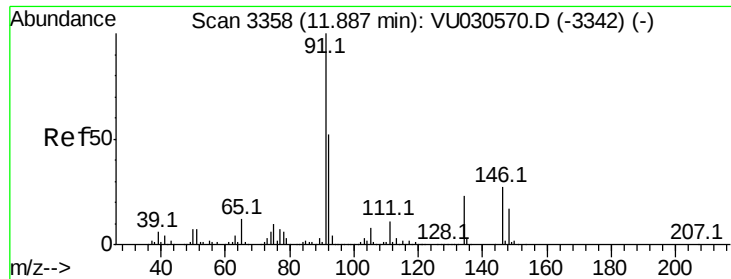
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#83
 1,4-Dichlorobenzene
 Concen: 0.409 ug/l
 RT: 11.51 min Scan# 3241
 Delta R.T. 0.01 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Tgt Ion:146 Resp: 14166
 Ion Ratio Lower Upper
 146 100
 111 46.3 32.8 49.2
 148 67.9 50.5 75.7





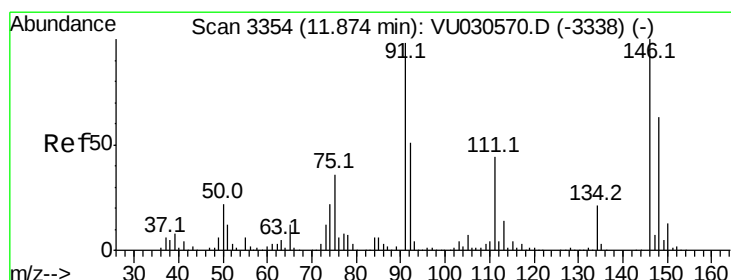
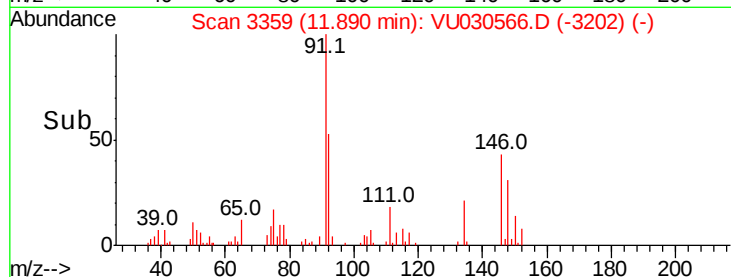
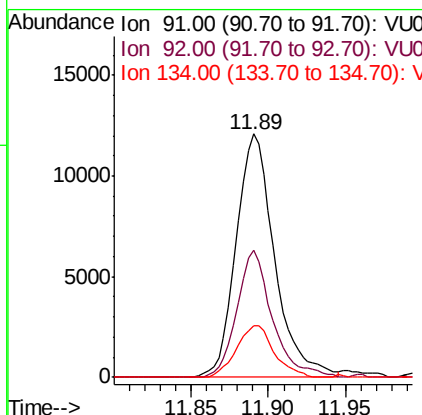
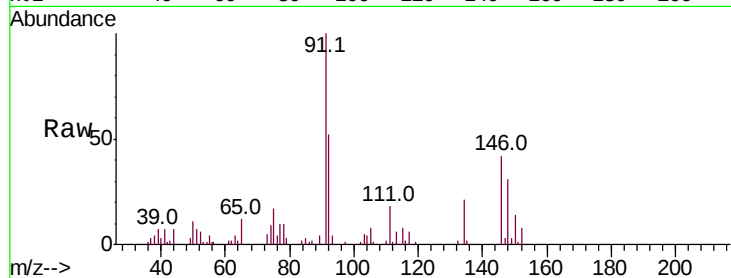
#84
n-Butylbenzene
Concen: 0.364 ug/l
RT: 11.89 min Scan# 3359
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion:	91	Resp:	20911
Ion Ratio	Lower	Upper	
91	100		
92	47.9	41.7	62.5
134	20.7	18.3	27.5

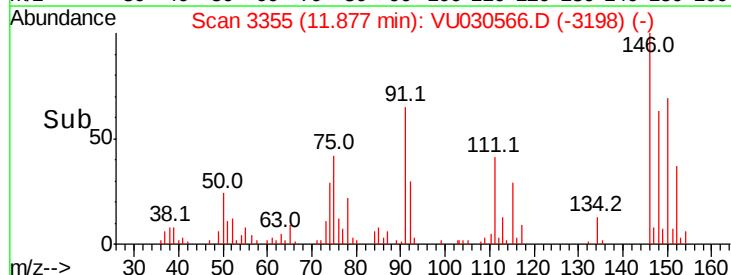
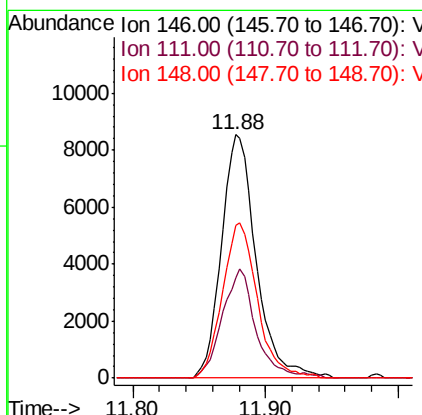
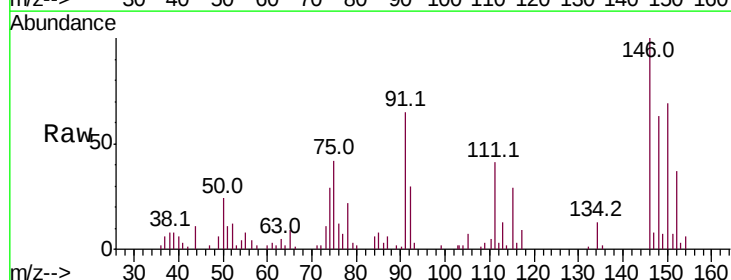
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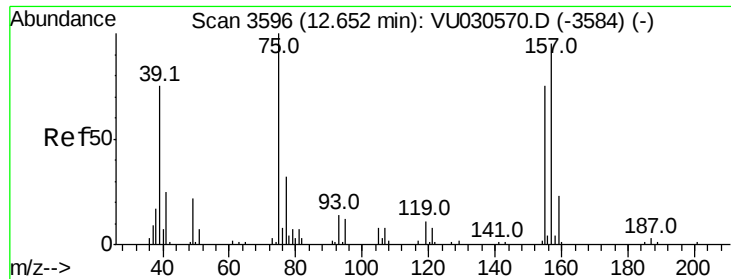
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#85
1,2-Dichlorobenzene
Concen: 0.484 ug/l
RT: 11.88 min Scan# 3355
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Tgt Ion:	146	Resp:	15532
Ion Ratio	Lower	Upper	
146	100		
111	43.8	21.9	65.5
148	64.2	31.5	94.5





#86

1,2-Dibromo-3-Chloropropane

Concen: 0.510 ug/l

RT: 12.66 min Scan# 3599

Delta R.T. 0.01 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 1003

Ion Ratio Lower Upper

75 100

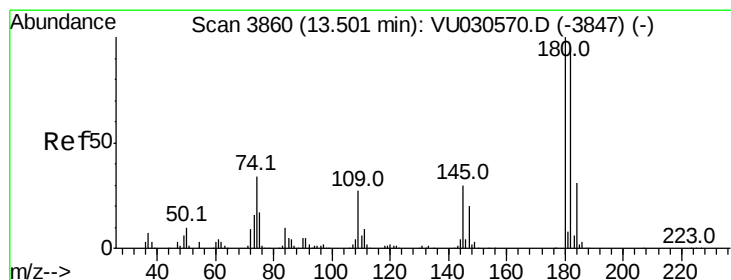
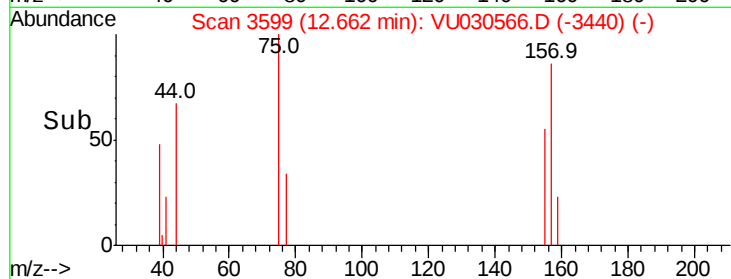
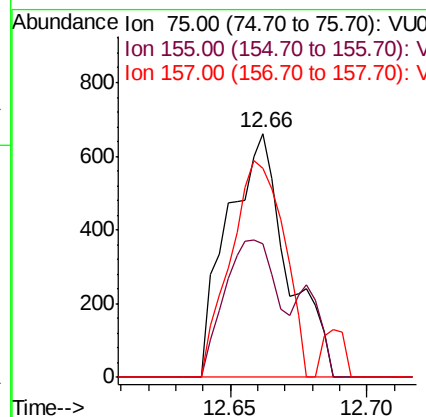
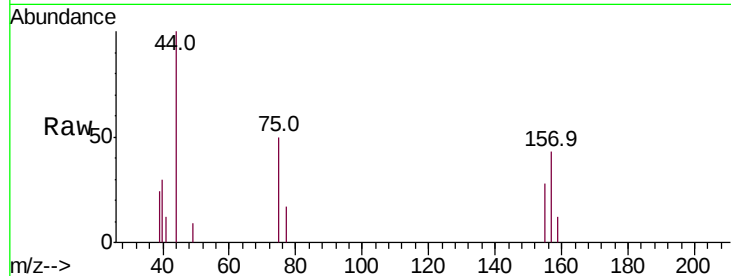
155 50.4 59.7 89.5#

157 79.7 73.7 110.5

Manual Integrations
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#87

1,2,4-Trichlorobenzene

Concen: 0.290 ug/l

RT: 13.50 min Scan# 3861

Delta R.T. 0.00 min

Lab File: VU030566.D

Acq: 30 Mar 2019 09:54

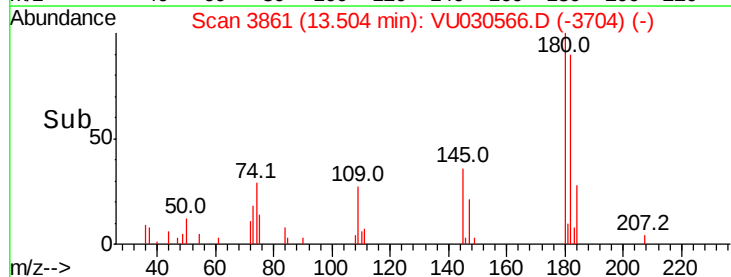
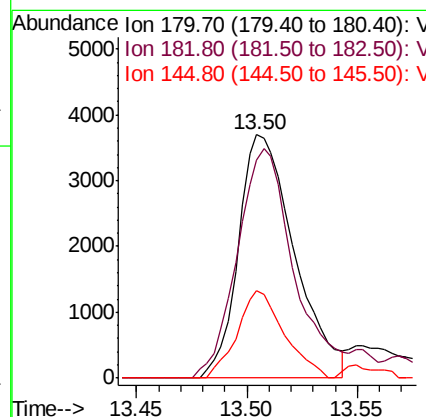
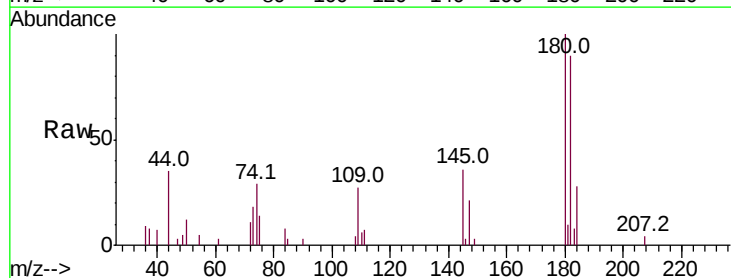
Tgt Ion: 180 Resp: 6515

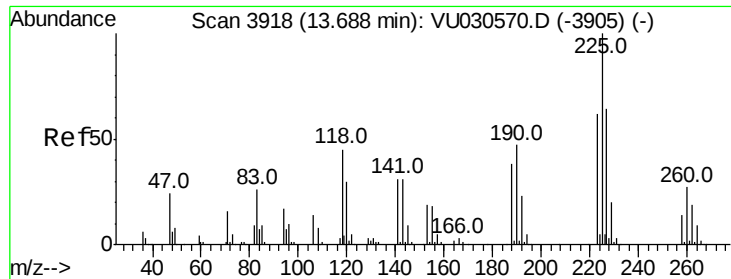
Ion Ratio Lower Upper

180 100

182 95.9 76.0 114.0

145 30.1 24.3 36.5





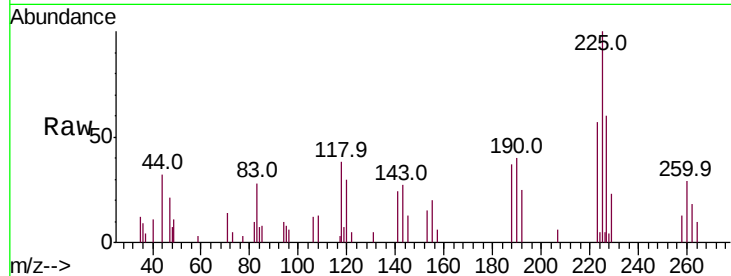
#88
Hexachlorobutadiene
Concen: 0.442 ug/l
RT: 13.69 min Scan# 3919
Delta R.T. 0.00 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

Instrument :
MSVOA_U
ClientSampled :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.7	76.1
227	58.3	50.8	76.2

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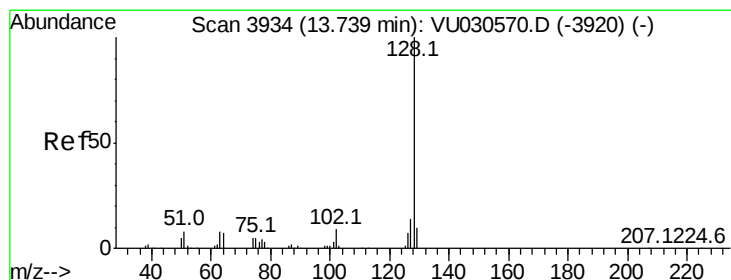
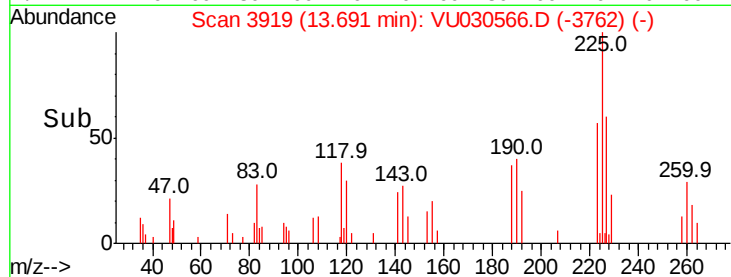
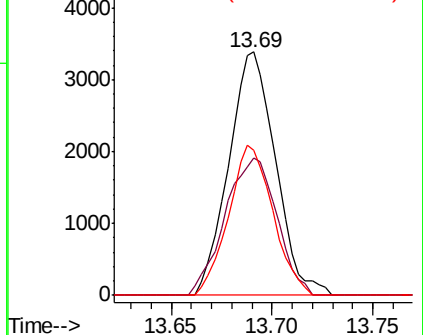


Abundance

Ion 224.60 (224.30 to 225.30): V

Ion 222.60 (222.30 to 223.30): V

Ion 226.60 (226.30 to 227.30): V



#89
Naphthalene
Concen: 0.230 ug/l
RT: 13.75 min Scan# 3938
Delta R.T. 0.01 min
Lab File: VU030566.D
Acq: 30 Mar 2019 09:54

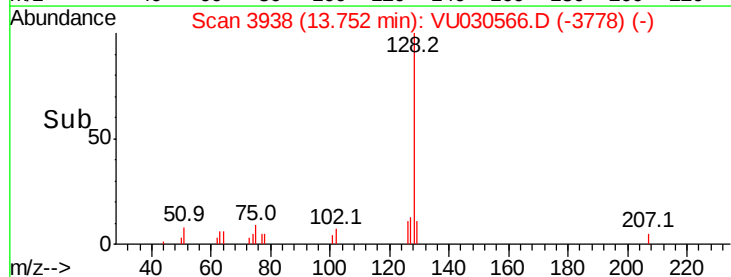
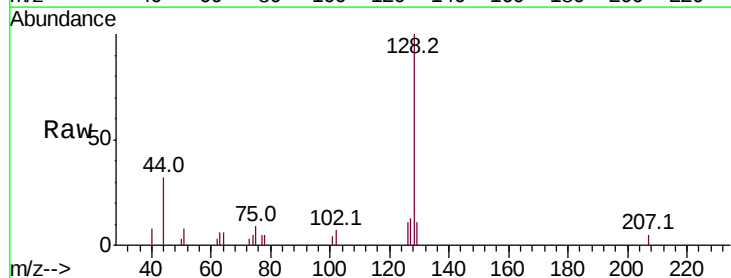
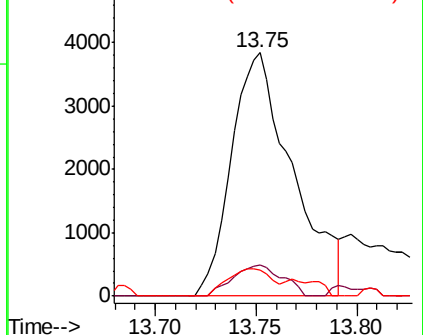
Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.5	10.4	15.6
129	7.9	7.8	11.8

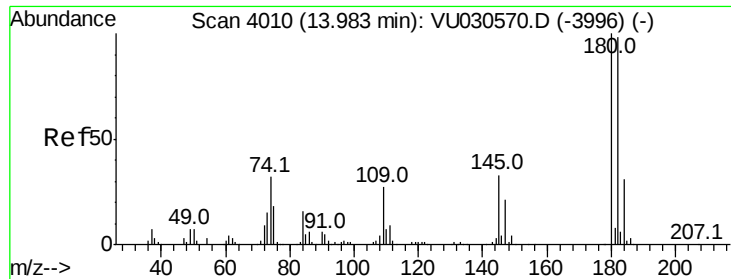
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#90
 1,2,3-Trichlorobenzene
 Concen: 0.322 ug/l
 RT: 13.99 min Scan# 4012
 Delta R.T. 0.01 min
 Lab File: VU030566.D
 Acq: 30 Mar 2019 09:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.7	76.6	114.8
145	29.0	25.9	38.9

Manual Integrations
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