

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082719\
 Data File : VU033954.D
 Acq On : 26 Aug 2019 17:04
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/27/2019 12:16:52 PM

Quant Time: Aug 27 06:27:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 27 05:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.95	168	398634	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	651504	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	640374	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	325955	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	31199	5.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.48%	
35) Dibromofluoromethane	4.86	113	26215	6.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	12.74%	
50) Toluene-d8	7.55	98	86018	5.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.64%	
62) 4-Bromofluorobenzene	10.29	95	35827	5.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.84%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.20	85	20539	3.916	ug/l	94
3) Chloromethane	1.32	50	26927	2.925	ug/l	99
4) Vinyl Chloride	1.39	62	29377	4.229	ug/l	98
5) Bromomethane	1.60	94	23851	8.192	ug/l	98
6) Chloroethane	1.68	64	18350	4.624	ug/l	94
7) Trichlorofluoromethane	1.87	101	35765	4.802	ug/l	92
8) Diethyl Ether	2.09	74	15096	4.387	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.27	101	21366	4.821	ug/l	98
10) Methyl Iodide	2.39	142	3730	0.922	ug/l	96
11) Tert butyl alcohol	2.80	59	26372	19.878	ug/l	99
12) 1,1-Dichloroethene	2.27	96	21298	4.822	ug/l	98
13) Acrolein	2.18	56	17345	17.219	ug/l	98
14) Allyl chloride	2.57	41	39760	3.952	ug/l	91
15) Acrylonitrile	2.92	53	76463	20.834	ug/l	98
16) Acetone	2.30	43	86937	22.436	ug/l	98
17) Carbon Disulfide	2.46	76	70244	4.455	ug/l	98
18) Methyl Acetate	2.60	43	37101	3.787	ug/l	95
19) Methyl tert-butyl Ether	2.98	73	63651	3.865	ug/l	99
20) Methylene Chloride	2.68	84	26961	4.641	ug/l	97
21) trans-1,2-Dichloroethene	2.96	96	23224	4.665	ug/l	93
22) Diisopropyl ether	3.54	45	69703	3.548	ug/l #	77
23) Vinyl Acetate	3.50	43	264843	16.209	ug/l	100
24) 1,1-Dichloroethane	3.42	63	45823	4.379	ug/l	99
25) 2-Butanone	4.24	43	101734	19.321	ug/l	100
26) 2,2-Dichloropropane	4.19	77	36247	4.350	ug/l	99
27) cis-1,2-Dichloroethene	4.20	96	24669	4.413	ug/l	99
28) Bromochloromethane	4.52	49	23585	4.975	ug/l	97
29) Tetrahydrofuran	4.61	42	58400	17.348	ug/l	99
30) Chloroform	4.65	83	46303	5.019	ug/l	98
31) Cyclohexane	4.97	56	44256	3.632	ug/l #	85
32) 1,1,1-Trichloroethane	4.89	97	37461	4.881	ug/l	97
36) 1,1-Dichloropropene	5.11	75	30161	4.269	ug/l	99
37) Ethyl Acetate	4.36	43	35862	3.986	ug/l	98
38) Carbon Tetrachloride	5.11	117	32661	5.561	ug/l	99

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

39) Methylcyclohexane	6.39	83	32310	3.762	ug/l	91
40) Benzene	5.37	78	95173	4.567	ug/l	99
41) Methacrylonitrile	4.52	41	17279	3.524	ug/l #	94
42) 1,2-Dichloroethane	5.38	62	36861	5.012	ug/l	100
43) Isopropyl Acetate	5.53	43	51072	3.613	ug/l	98
44) Trichloroethene	6.16	130	24643	5.200	ug/l	97
45) 1,2-Dichloropropane	6.41	63	27127	4.666	ug/l	98
46) Dibromomethane	6.54	93	17323	4.945	ug/l	98
47) Bromodichloromethane	6.74	83	34327	4.992	ug/l	99
48) Methyl methacrylate	6.60	41	21460	3.073	ug/l	98
49) 1,4-Dioxane	6.60	88	9367	80.221	ug/l	90
51) 4-Methyl-2-Pentanone	7.44	43	176685	19.554	ug/l	97
52) Toluene	7.62	92	54967	4.465	ug/l	99
53) t-1,3-Dichloropropene	7.86	75	32942	4.079	ug/l	100
54) cis-1,3-Dichloropropene	7.25	75	36662	4.180	ug/l	98
55) 1,1,2-Trichloroethane	8.05	97	25801	5.270	ug/l	97
56) Ethyl methacrylate	8.00	69	26519	3.227	ug/l	98
57) 1,3-Dichloropropane	8.22	76	41758	4.604	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.11	63	41293	10.221	ug/l	97
59) 2-Hexanone	8.35	43	129933	18.181	ug/l	92
60) Dibromochloromethane	8.46	129	24983	5.115	ug/l	99
61) 1,2-Dibromoethane	8.57	107	25644	4.977	ug/l	98
64) Tetrachloroethene	8.21	164	23153	5.379	ug/l	98
65) Chlorobenzene	9.10	112	63115	4.656	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.19	131	22230	5.042	ug/l	97
67) Ethyl Benzene	9.23	91	94359	3.813	ug/l	99
68) m/p-Xylenes	9.36	106	69115	7.657	ug/l	99
69) o-Xylene	9.76	106	32653	3.732	ug/l	98
70) Styrene	9.77	104	52847	3.607	ug/l	98
71) Bromoform	9.94	173	18218	4.858	ug/l #	100
73) Isopropylbenzene	10.15	105	86382	3.529	ug/l	97
74) N-amyl acetate	10.00	43	31867	2.327	ug/l	96
75) 1,1,2,2-Tetrachloroethane	10.44	83	40860	4.348	ug/l	100
76) 1,2,3-Trichloropropane	10.48	75	37013m	4.530	ug/l	
77) Bromobenzene	10.44	156	25591	4.426	ug/l	96
78) n-propylbenzene	10.57	91	103508	3.419	ug/l	100
79) 2-Chlorotoluene	10.64	91	64749	3.712	ug/l	99
80) 1,3,5-Trimethylbenzene	10.76	105	71090	3.498	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.49	75	9632m	2.705	ug/l	
82) 4-Chlorotoluene	10.76	91	75190	3.627	ug/l	98
83) tert-Butylbenzene	11.08	119	67034	3.430	ug/l	98
84) 1,2,4-Trimethylbenzene	11.13	105	68995	3.301	ug/l	99
85) sec-Butylbenzene	11.31	105	85454	3.422	ug/l	100
86) p-Isopropyltoluene	11.46	119	77906	3.623	ug/l	96
87) 1,3-Dichlorobenzene	11.40	146	47409	4.338	ug/l	99
88) 1,4-Dichlorobenzene	11.49	146	50682	4.491	ug/l	96
89) n-Butylbenzene	11.87	91	65452	3.045	ug/l	95
90) Hexachloroethane	12.12	117	16077	4.822	ug/l	99
91) 1,2-Dichlorobenzene	11.86	146	44280	4.065	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	12.64	75	7009	3.447	ug/l	98

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ClientSampleId :
VSTDICC005

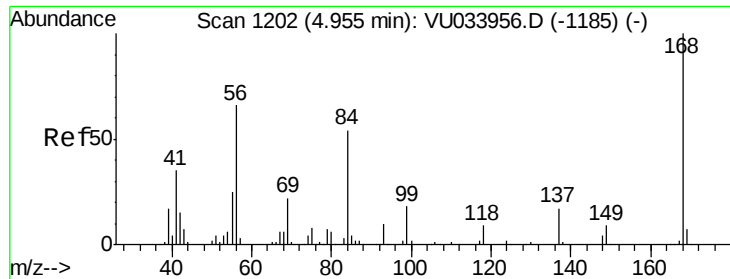
Manual Integrations
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082719W.M
Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	19702	2.530	ug/l	96
94) Hexachlorobutadiene	13.67	225	17130	4.696	ug/l	98
95) Naphthalene	13.73	128	42099	1.650	ug/l	98
96) 1,2,3-Trichlorobenzene	13.98	180	20135	2.579	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.95 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 398634

Ion Ratio Lower Upper

168 100

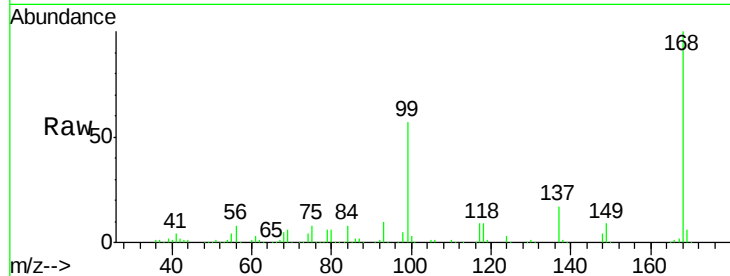
99 56.6 45.5 68.3

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VU033954.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU033954.D (-1185) (-)

4.95

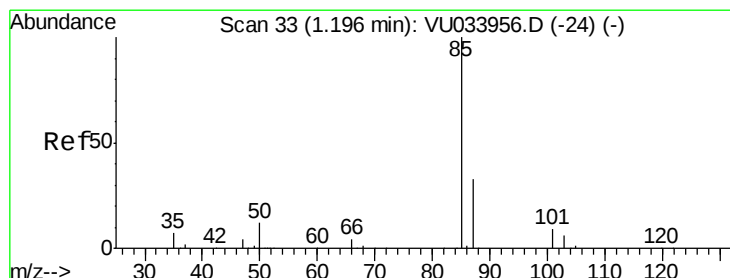
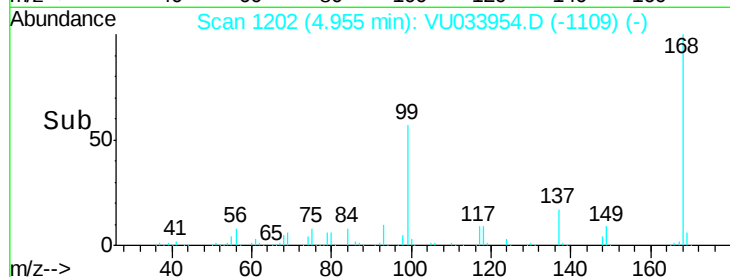
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 3.916 ug/l

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033954.D

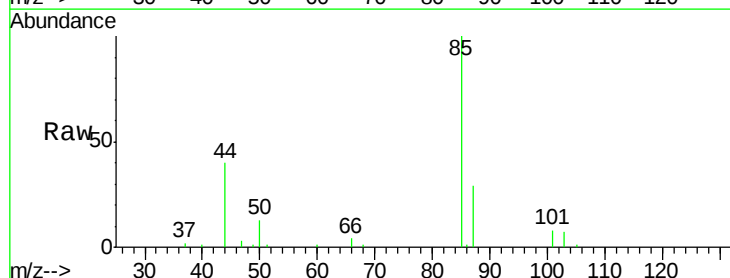
Acq: 26 Aug 2019 17:04

Tgt Ion: 85 Resp: 20539

Ion Ratio Lower Upper

85 100

87 29.5 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VU033954.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VU033954.D (-1) (-)

1.20

20000

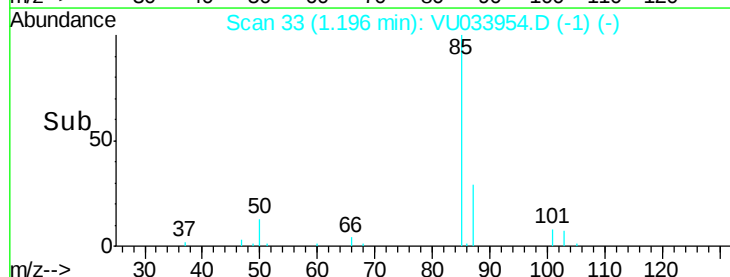
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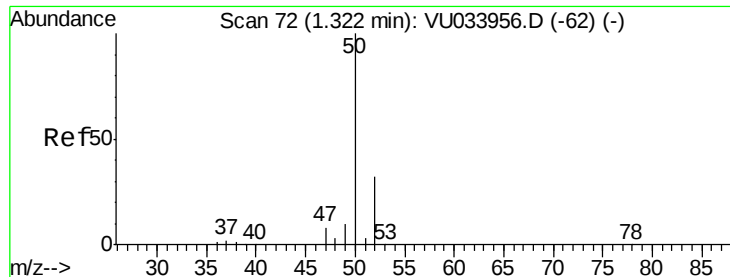
10000

5000

0

Time-->





#3

Chloromethane

Concen: 2.925 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 26927

Ion Ratio Lower Upper

50 100

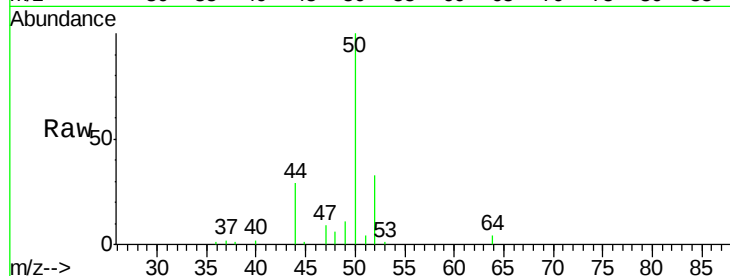
52 33.0 25.9 38.9

Manual Integrations

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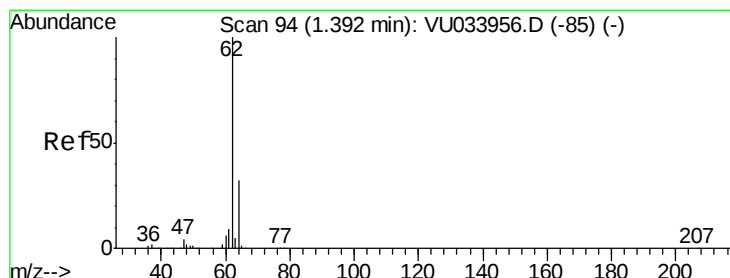
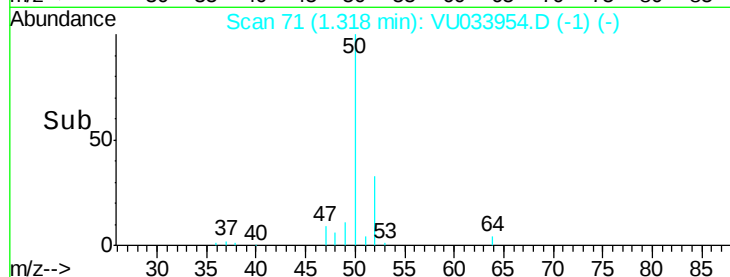
Abundance Ion 49.90 (49.60 to 50.60): VU033954.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU033954.D (-1) (-)

1.32

1.35

Time-->



#4

Vinyl Chloride

Concen: 4.229 ug/l

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033954.D

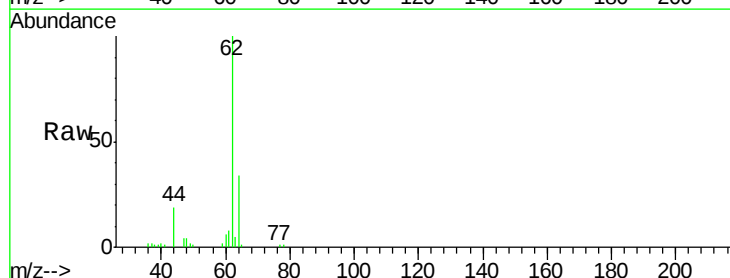
Acq: 26 Aug 2019 17:04

Tgt Ion: 62 Resp: 29377

Ion Ratio Lower Upper

62 100

64 30.5 25.3 37.9



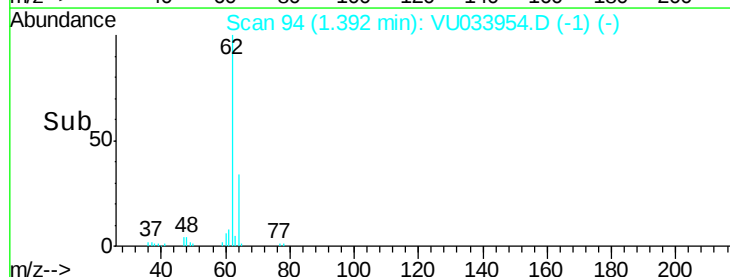
Abundance Ion 61.90 (61.60 to 62.60): VU033954.D (-1) (-)

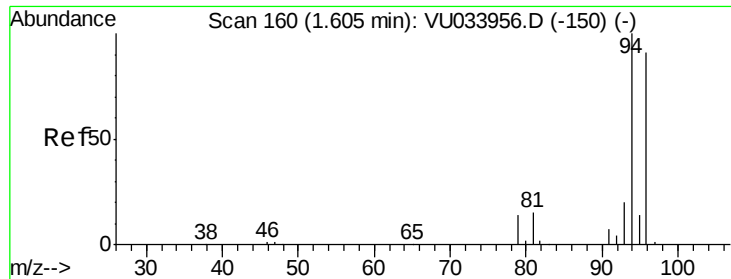
Ion 63.90 (63.60 to 64.60): VU033954.D (-1) (-)

1.39

1.45

Time-->





#5

Bromomethane

Concen: 8.192 ug/l

RT: 1.60 min Scan# 160

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 23851

Ion Ratio Lower Upper

94 100

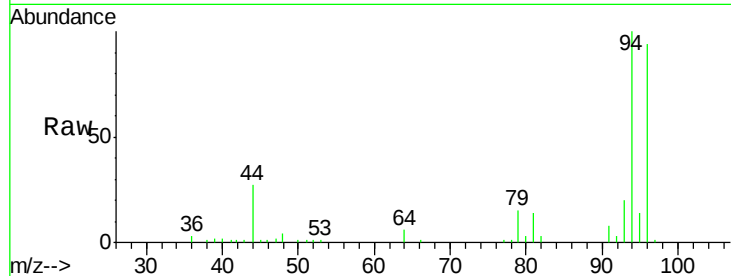
96 93.2 73.2 109.8

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VU033956.D (-150) (-)

Ion 95.90 (95.60 to 96.60): VU033956.D (-150) (-)

1.60

20000

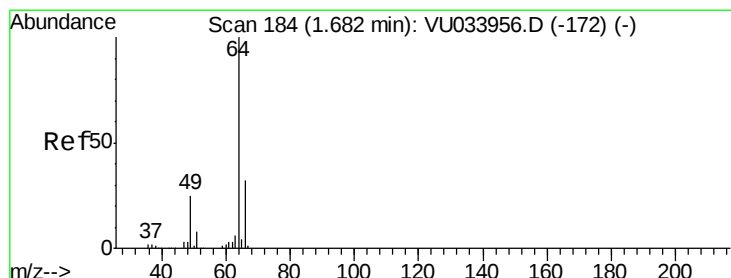
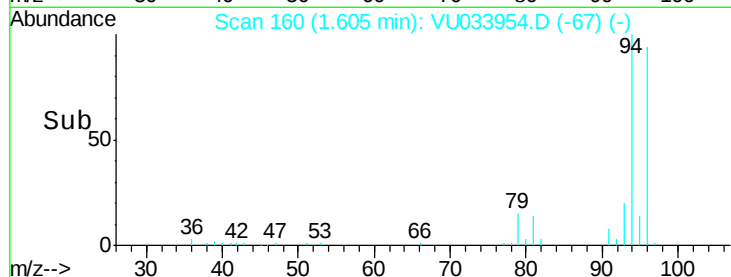
15000

10000

5000

0

Time-->



#6

Chloroethane

Concen: 4.624 ug/l

RT: 1.68 min Scan# 183

Delta R.T. -0.00 min

Lab File: VU033954.D

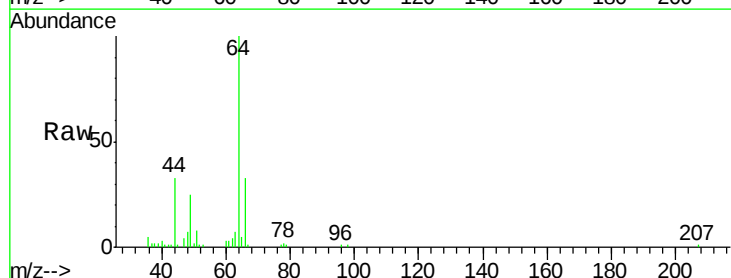
Acq: 26 Aug 2019 17:04

Tgt Ion: 64 Resp: 18350

Ion Ratio Lower Upper

64 100

66 34.4 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VU033956.D (-172) (-)

Ion 65.90 (65.60 to 66.60): VU033956.D (-172) (-)

1.68

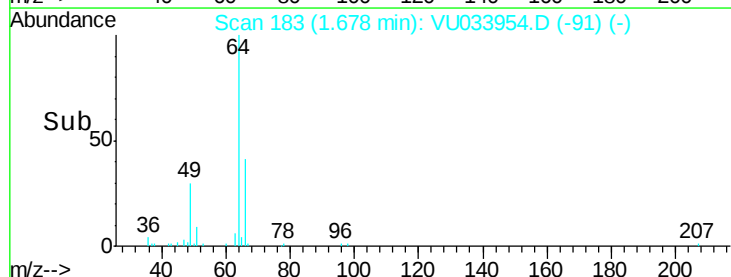
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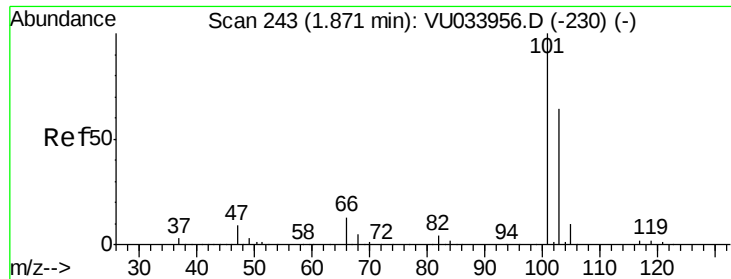
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5000

0

Time-->





#7

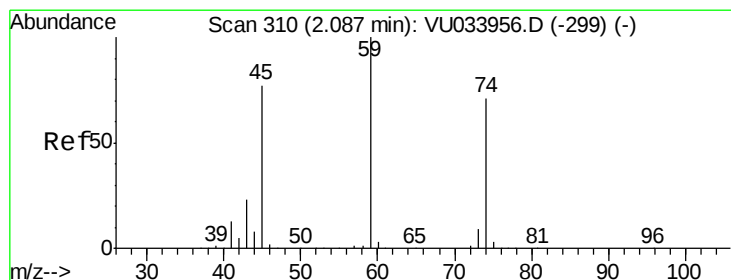
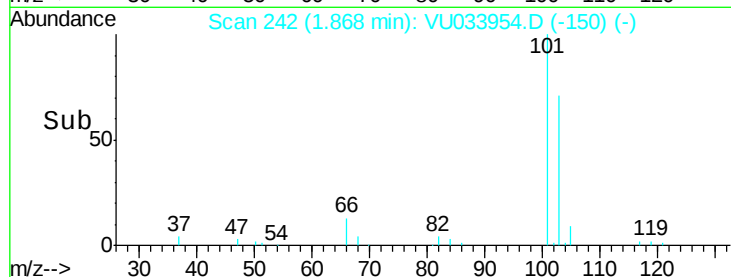
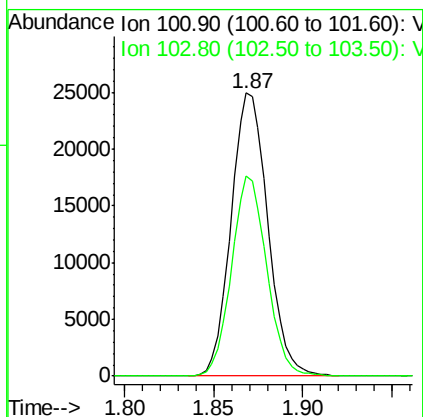
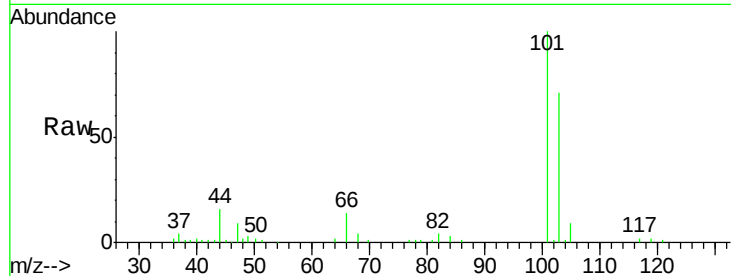
Trichlorofluoromethane
Concen: 4.802 ug/l
RT: 1.87 min Scan# 242
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:101 Resp: 35765
Ion Ratio Lower Upper
101 100
103 70.7 51.5 77.3

Manual Integrations
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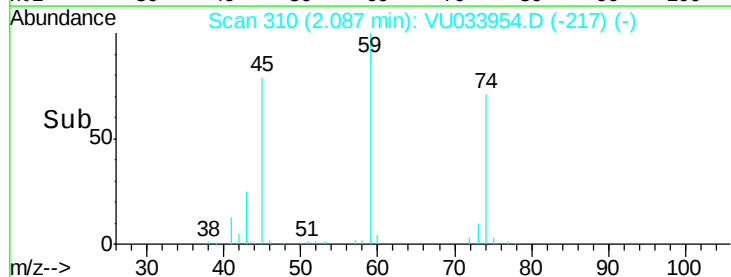
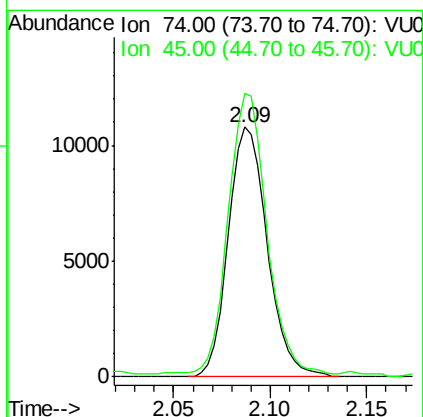
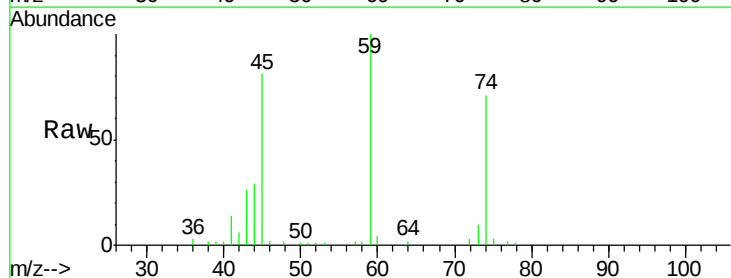
MMDadoda
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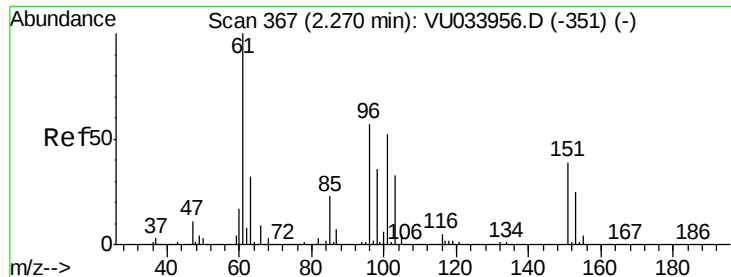


#8

Diethyl Ether
Concen: 4.387 ug/l
RT: 2.09 min Scan# 310
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion: 74 Resp: 15096
Ion Ratio Lower Upper
74 100
45 109.9 53.9 161.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.821 ug/l

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

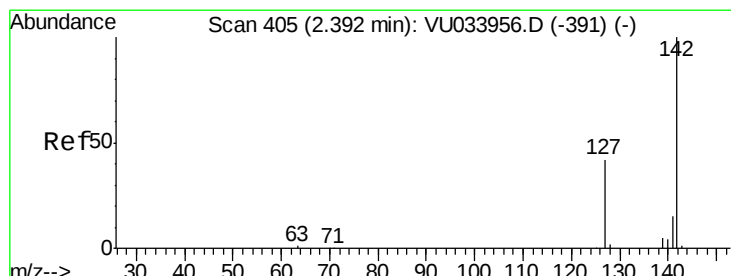
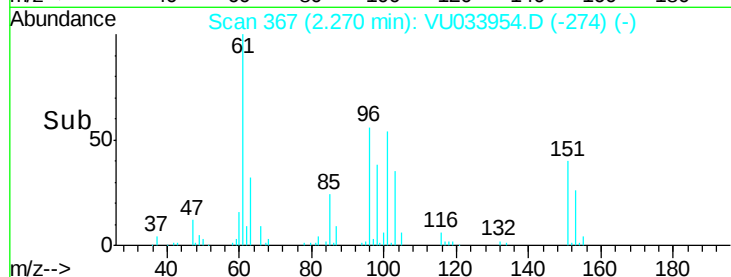
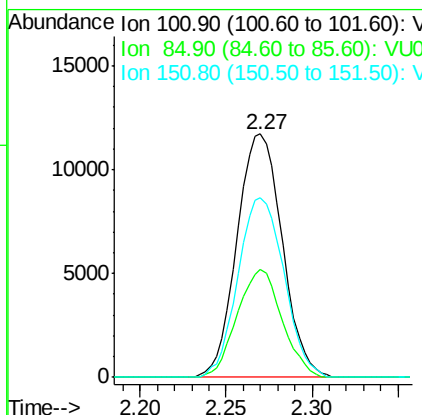
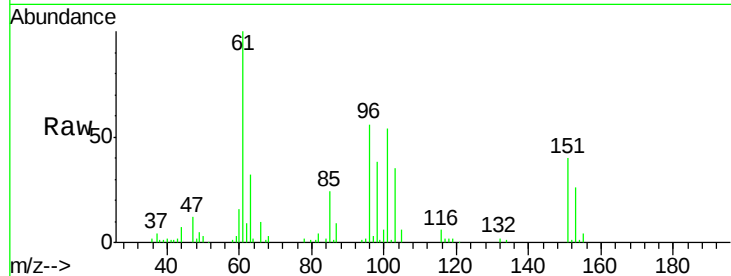
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	21366
Ion Ratio	Lower	Upper	
101	100		
85	43.8	35.0	52.6
151	75.2	57.9	86.9

Manual Integrations
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#10

Methyl Iodide

Concen: 0.922 ug/l

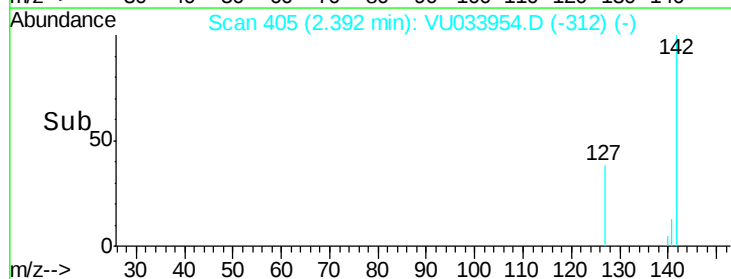
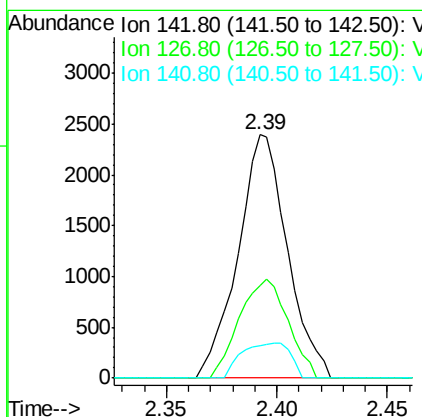
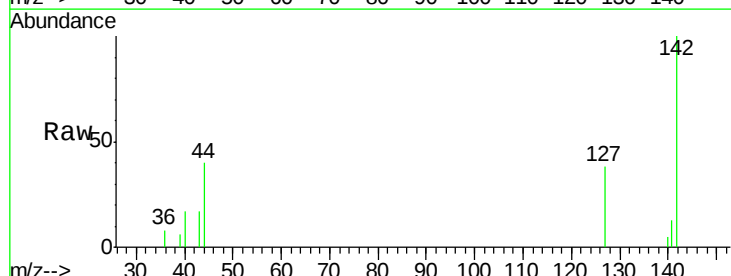
RT: 2.39 min Scan# 405

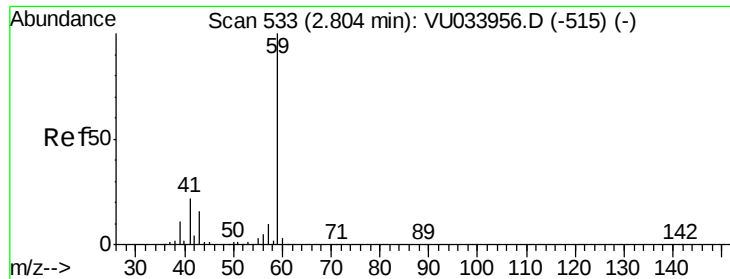
Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Tgt Ion:	142	Resp:	3730
Ion Ratio	Lower	Upper	
142	100		
127	39.9	34.3	51.5
141	14.1	11.8	17.6





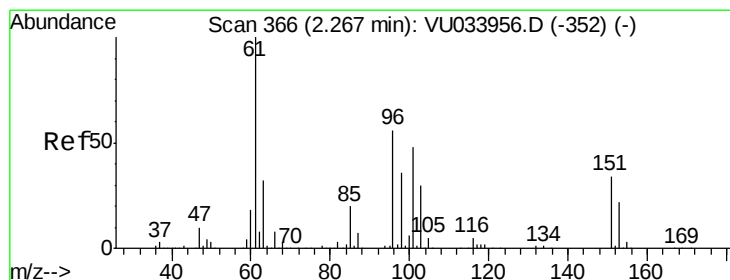
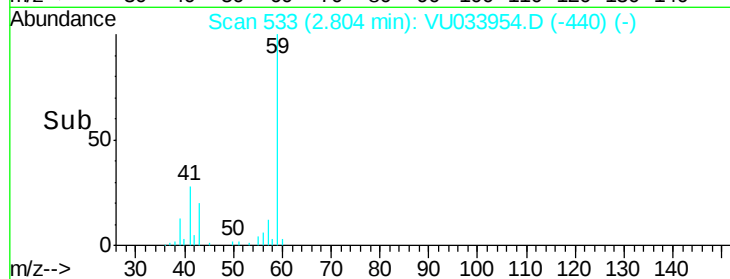
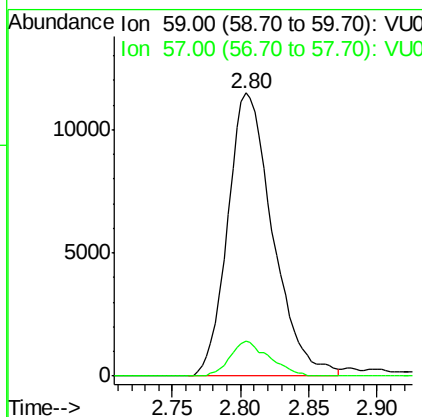
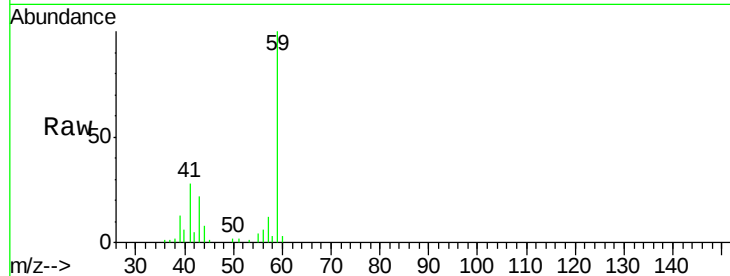
#11
Tert butyl alcohol
Concen: 19.878 ug/l
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampled :
VSTDIC005

Tot Ion: 59 Resp: 26372
Ion Ratio Lower Upper
59 100
57 10.7 8.2 12.2

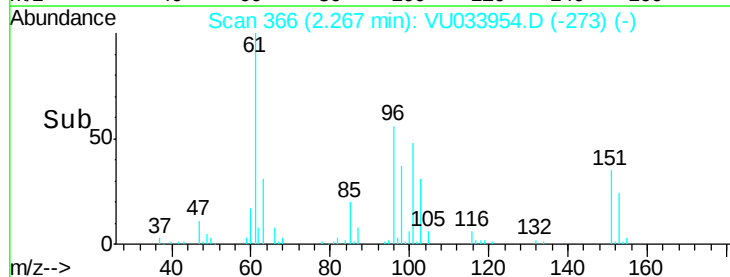
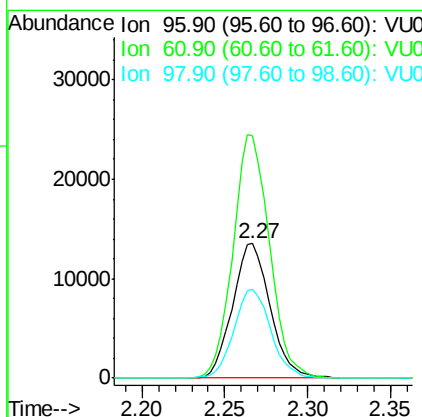
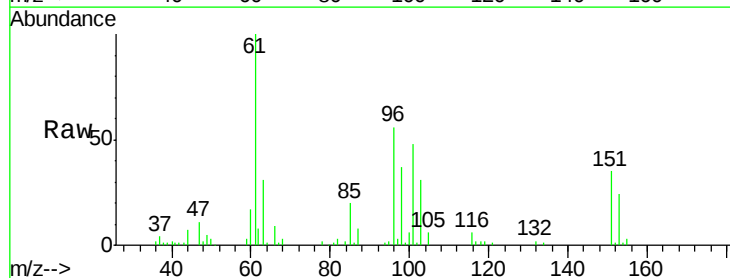
Manual Integrations
APPROVED

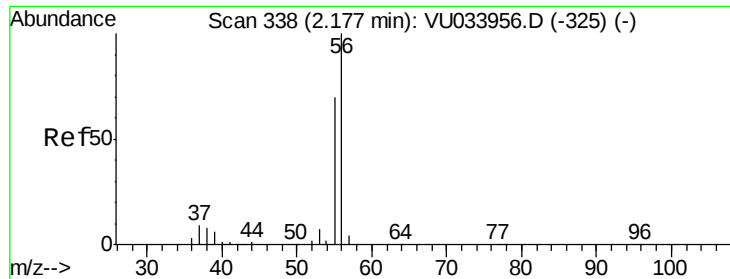
MMDadoda
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#12
1,1-Dichloroethene
Concen: 4.822 ug/l
RT: 2.27 min Scan# 366
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion: 96 Resp: 21298
Ion Ratio Lower Upper
96 100
61 179.8 142.3 213.5
98 65.9 51.0 76.6





#13

Acrolein

Concen: 17.219 ug/l

RT: 2.18 min Scan# 338

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 17345

Ion Ratio Lower Upper

56 100

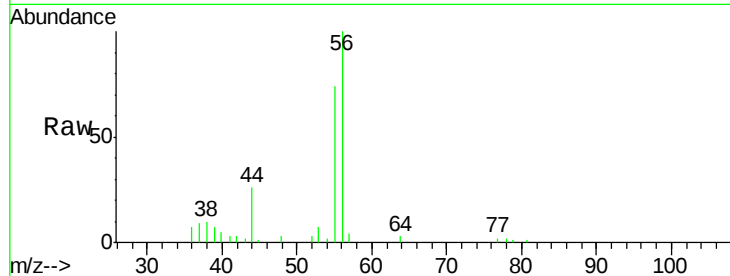
55 72.2 56.3 84.5

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VU033956.D (-325) (-)

Ion 55.00 (54.70 to 55.70): VU033956.D (-325) (-)

2.18

12000

10000

8000

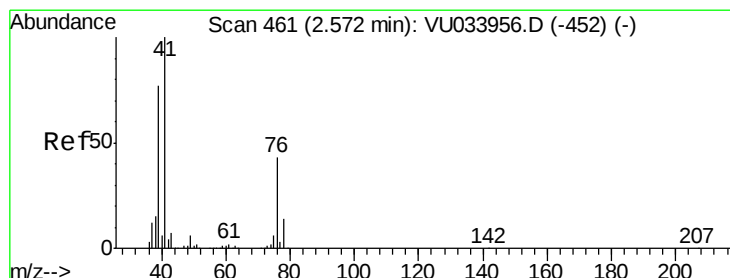
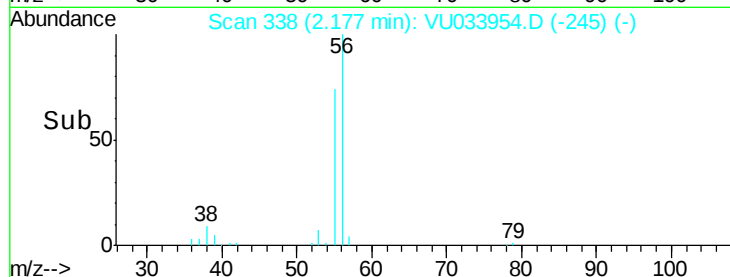
6000

4000

2000

0

Time-->



#14

Allyl chloride

Concen: 3.952 ug/l

RT: 2.57 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

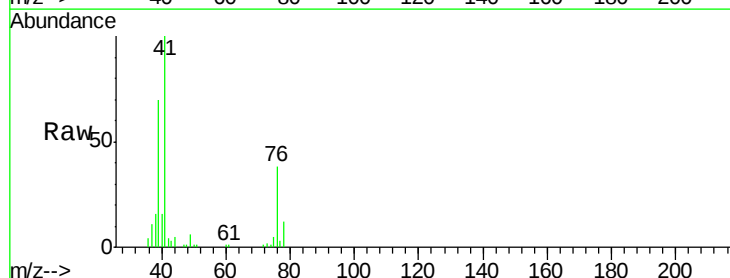
Tgt Ion: 41 Resp: 39760

Ion Ratio Lower Upper

41 100

39 62.5 56.4 84.6

76 32.2 29.2 43.8



Abundance Ion 41.00 (40.70 to 41.70): VU033956.D (-452) (-)

Ion 39.00 (38.70 to 39.70): VU033956.D (-452) (-)

Ion 75.90 (75.60 to 76.60): VU033956.D (-452) (-)

60000

50000

40000

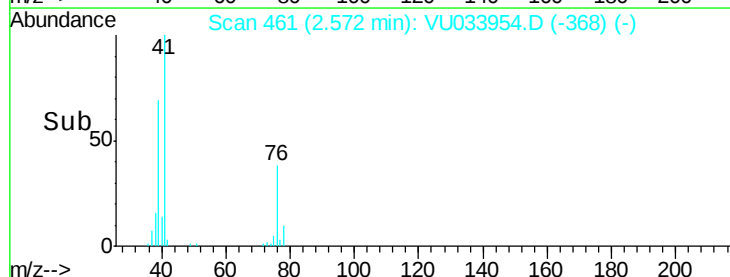
30000

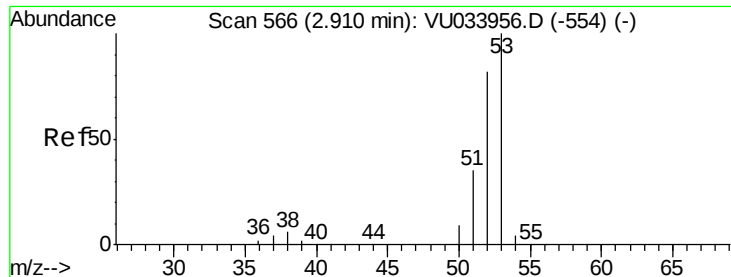
20000

10000

0

Time-->





#15

Acrylonitrile

Concen: 20.834 ug/l

RT: 2.92 min Scan# 568

Delta R.T. 0.01 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

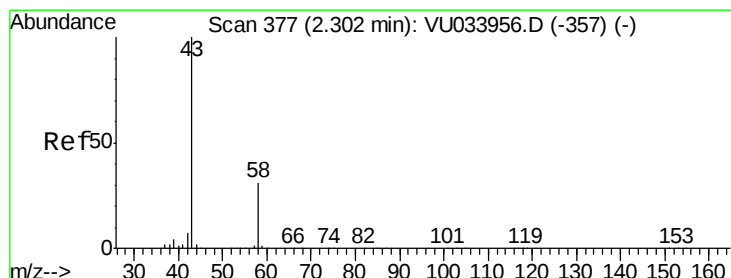
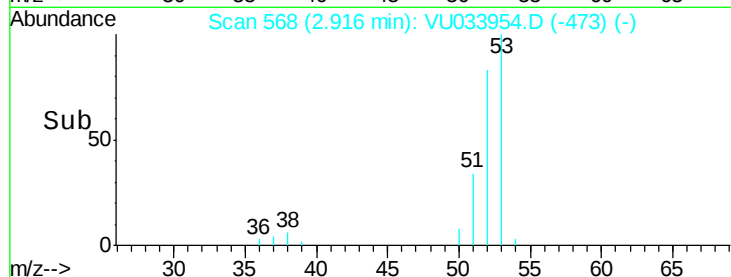
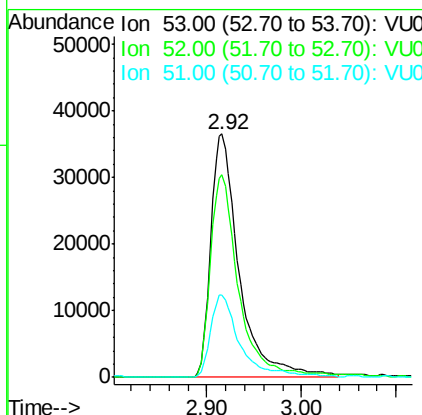
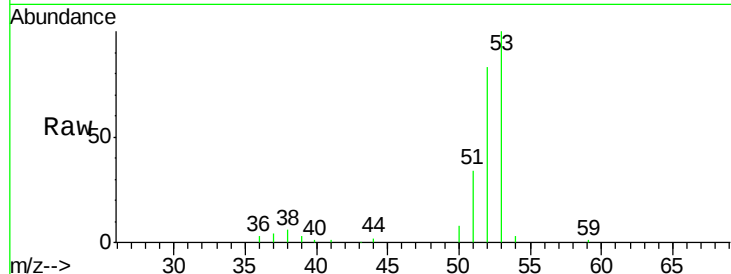
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	76463
Ion	Ratio	Lower	Upper
53	100		
52	79.5	65.2	97.8
51	35.4	28.6	43.0

Manual Integrations
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#16

Acetone

Concen: 22.436 ug/l

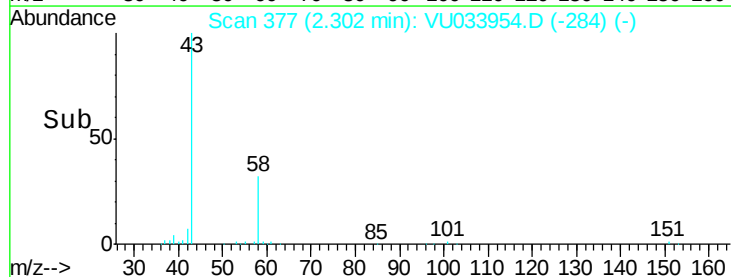
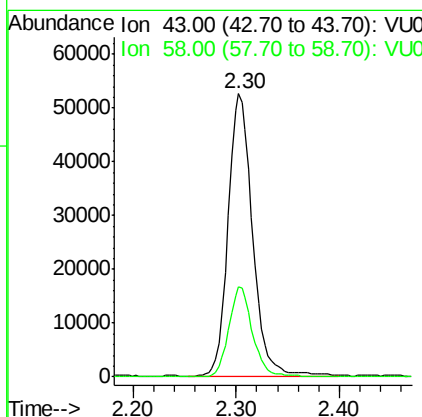
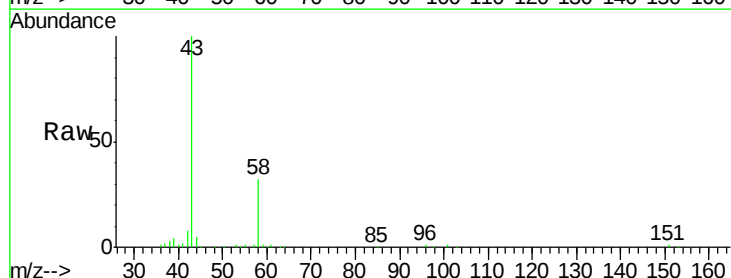
RT: 2.30 min Scan# 377

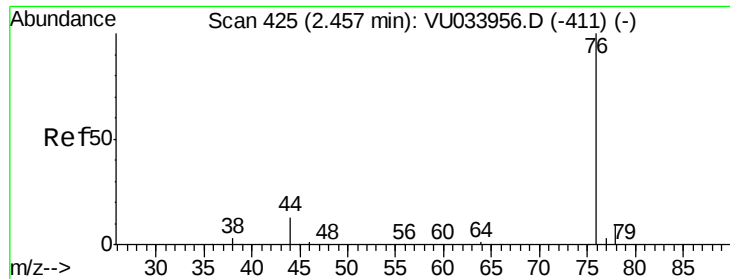
Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Tgt Ion:	43	Resp:	86937
Ion	Ratio	Lower	Upper
43	100		
58	31.9	24.5	36.7





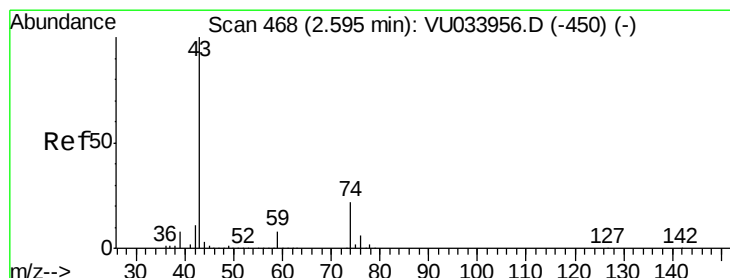
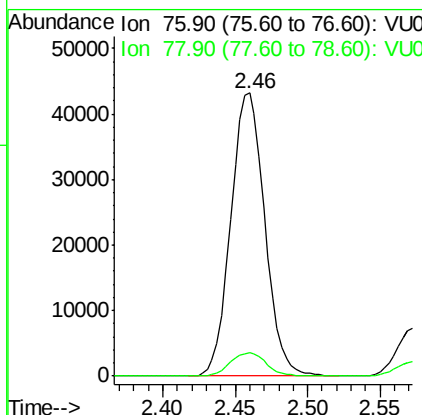
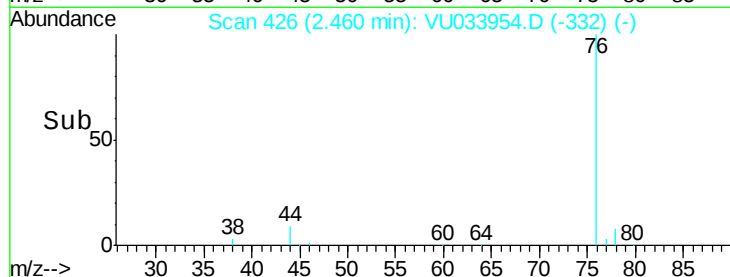
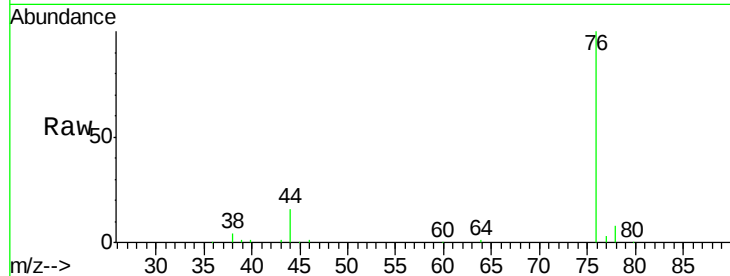
#17
Carbon Disulfide
Concen: 4.455 ug/l
RT: 2.46 min Scan# 426
Delta R.T. 0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 76 Resp: 70244
Ion Ratio Lower Upper
76 100
78 8.1 7.0 10.4

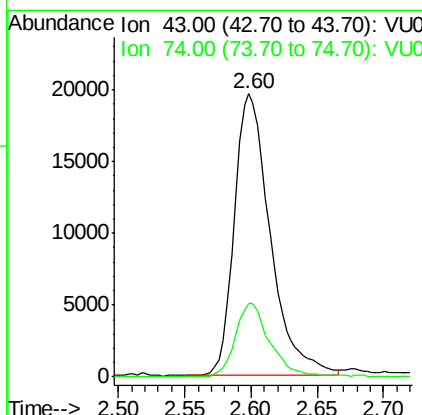
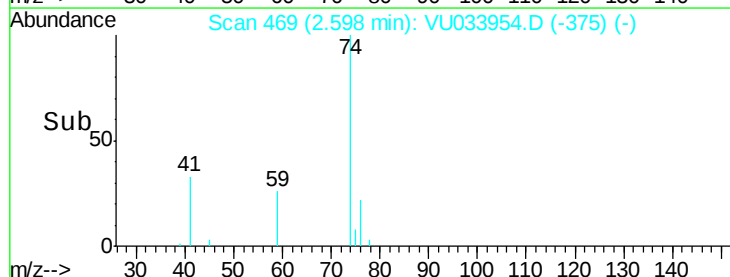
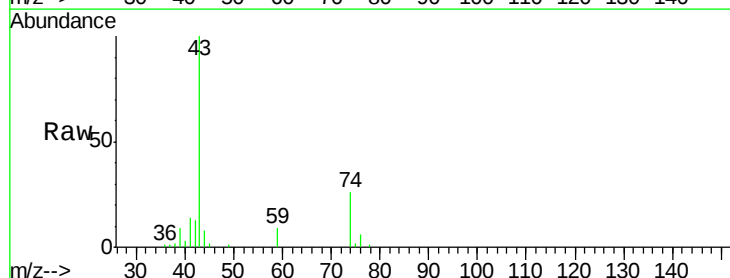
Manual Integrations
APPROVED

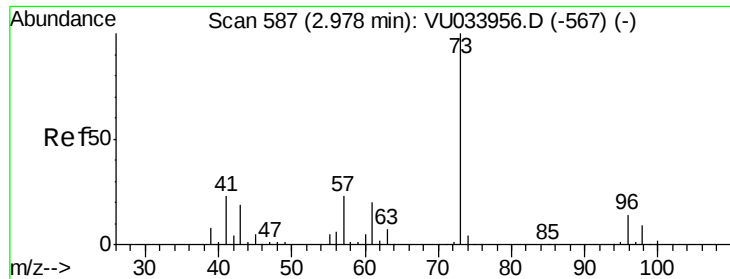
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#18
Methyl Acetate
Concen: 3.787 ug/l
RT: 2.60 min Scan# 469
Delta R.T. 0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion: 43 Resp: 37101
Ion Ratio Lower Upper
43 100
74 25.1 18.2 27.2





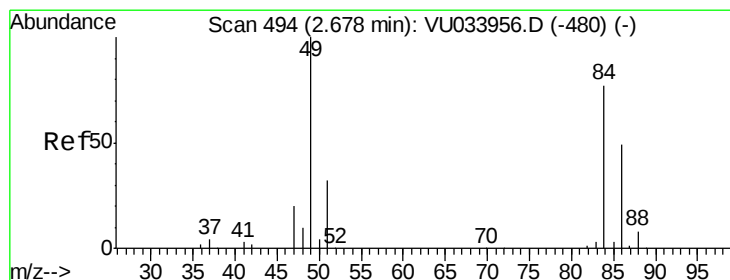
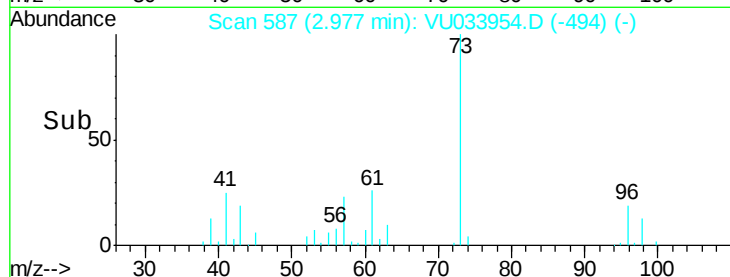
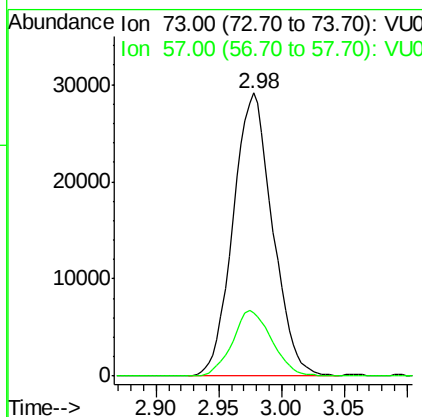
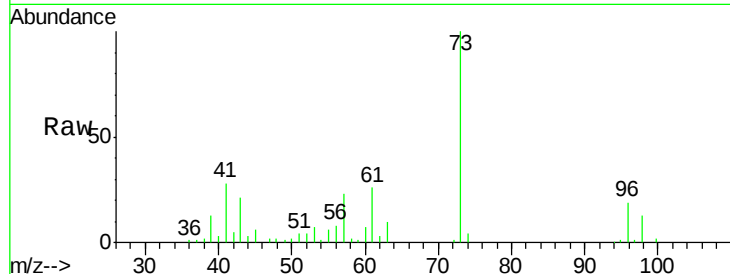
#19
Methvl tert-butvl Ether
Concen: 3.865 ug/l
RT: 2.98 min Scan# 587
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.5	18.3	27.5

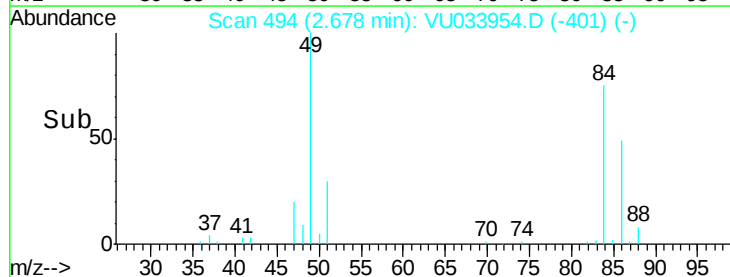
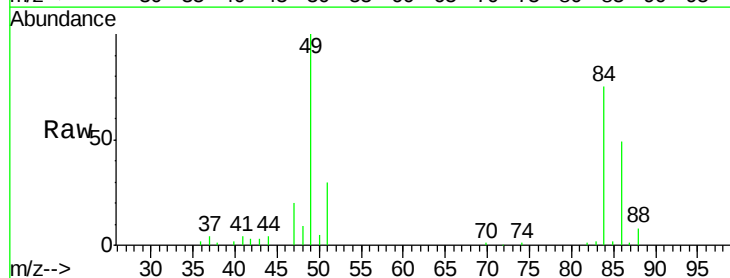
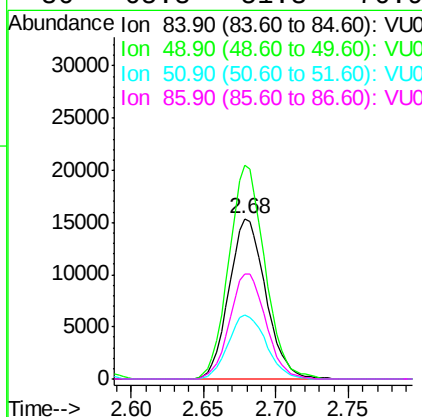
Manual Integrations
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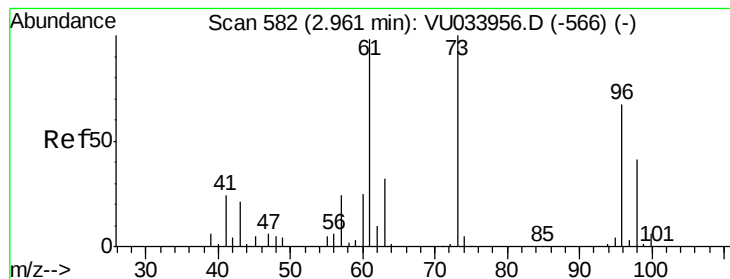
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#20
Methylene Chloride
Concen: 4.641 ug/l
RT: 2.68 min Scan# 494
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
84	100		
49	133.3	104.1	156.1
51	39.6	33.0	49.6
86	65.8	51.3	76.9





#21

trans-1,2-Dichloroethene

Concen: 4.665 ug/l

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 23224

Ion Ratio Lower Upper

96 100

61 136.2 117.8 176.8

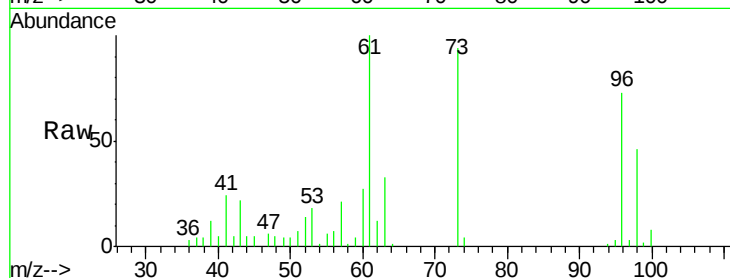
98 63.0 49.8 74.8

Manual Integrations

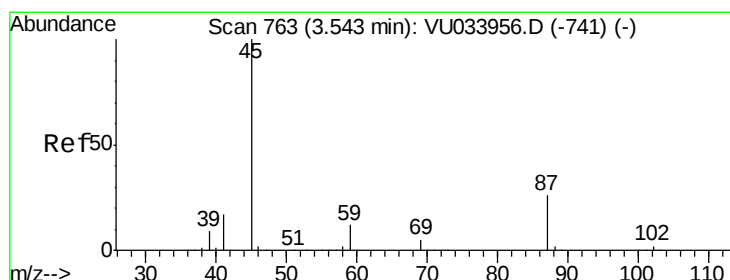
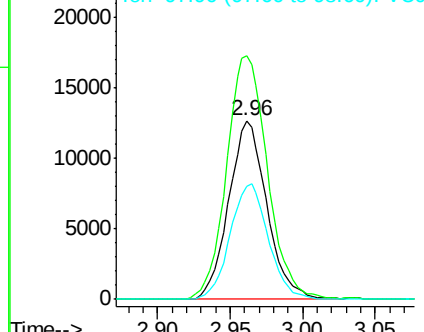
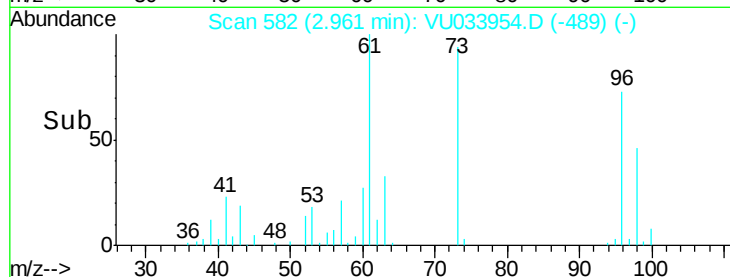
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Abundance Ion 95.90 (95.60 to 96.60): VU033954.D (-489) (-)



#22

Diisopropyl ether

Concen: 3.548 ug/l

RT: 3.54 min Scan# 763

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Tgt Ion: 45 Resp: 69703

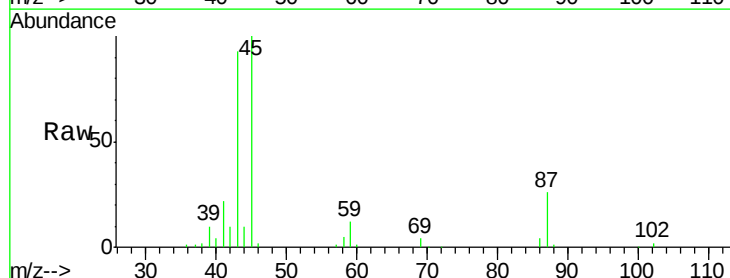
Ion Ratio Lower Upper

45 100

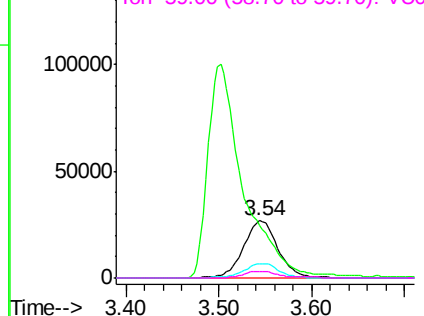
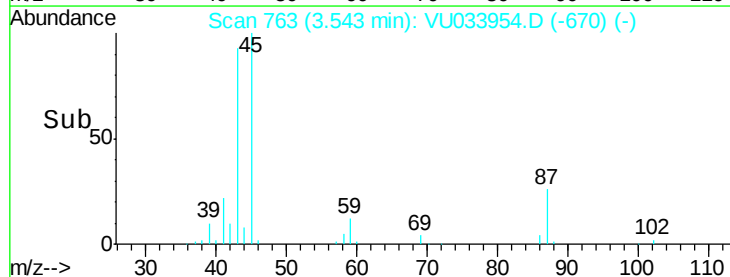
43 90.9 50.6 76.0#

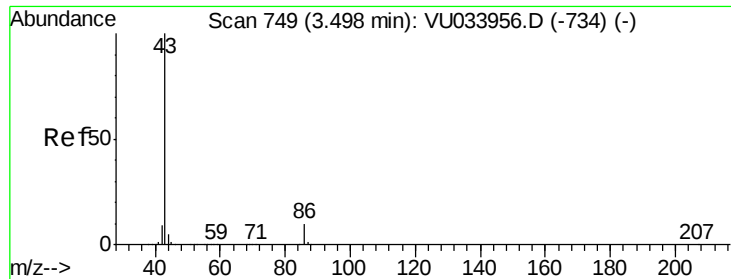
87 25.7 21.2 31.8

59 11.6 9.6 14.4



Abundance Ion 45.00 (44.70 to 45.70): VU033954.D (-670) (-)





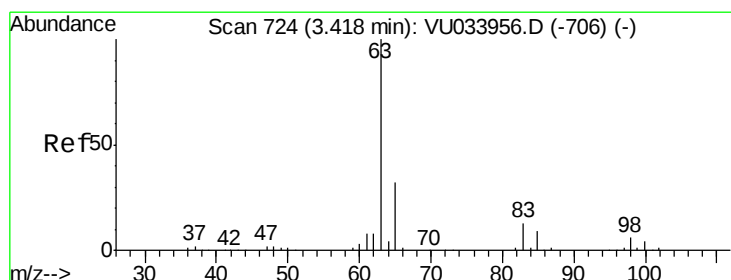
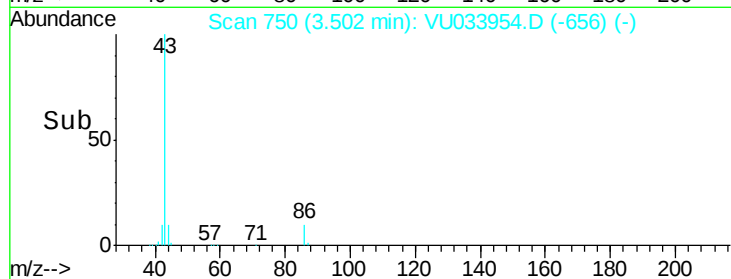
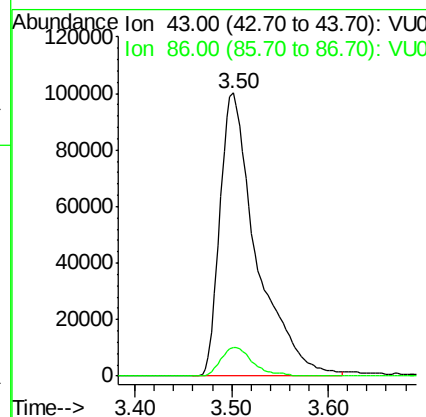
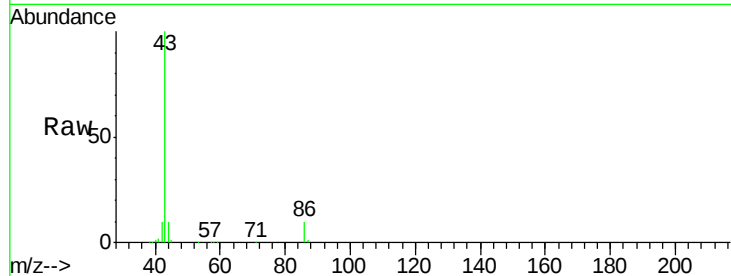
#23
 Vinyl Acetate
 Concen: 16.209 ug/l
 RT: 3.50 min Scan# 750
 Delta R.T. 0.00 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	43	Resp	264843
Ion Ratio	100	Lower	Upper
43	100		
86	10.3	8.2	12.4

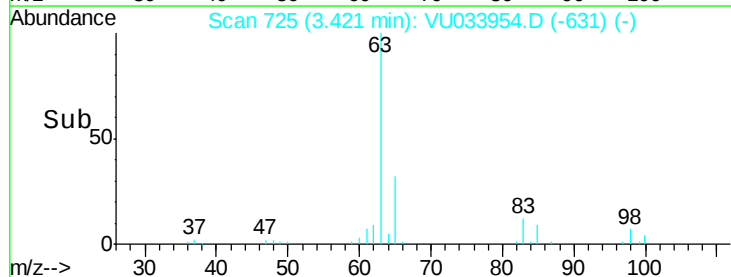
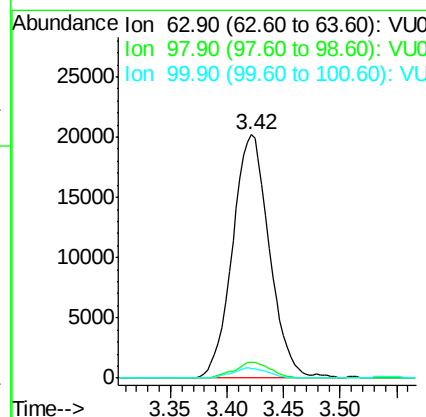
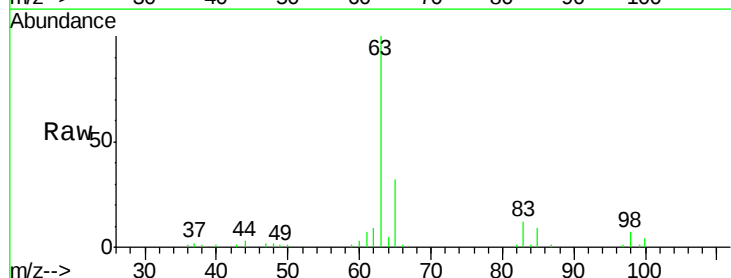
Manual Integrations
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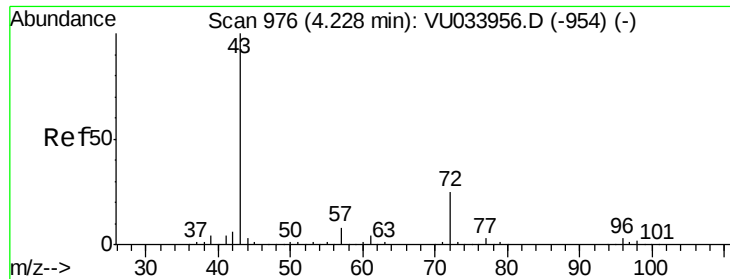
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#24
 1,1-Dichloroethane
 Concen: 4.379 ug/l
 RT: 3.42 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Tgt Ion	63	Resp	45823
Ion Ratio	100	Lower	Upper
63	100		
98	6.6	3.2	9.6
100	4.0	2.1	6.5





#25

2-Butanone

Concen: 19.321 ug/l

RT: 4.24 min Scan# 979

Delta R.T. 0.01 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 101734

Ion Ratio Lower Upper

43 100

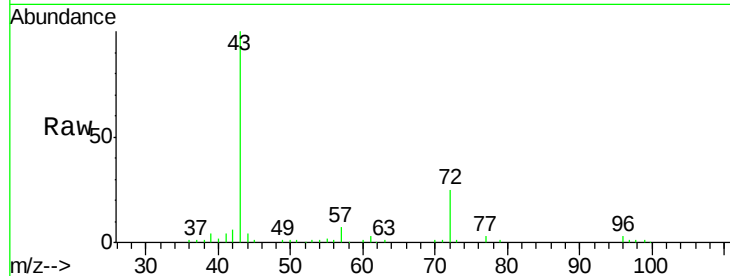
72 25.2 20.3 30.5

Manual Integrations

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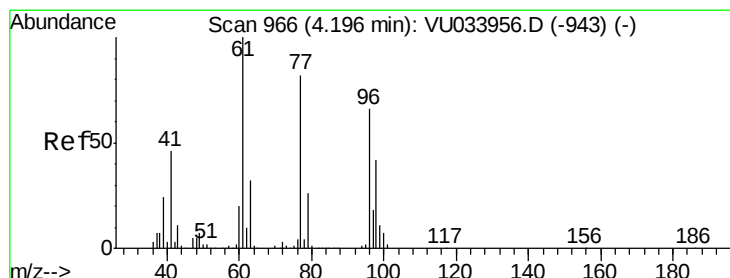
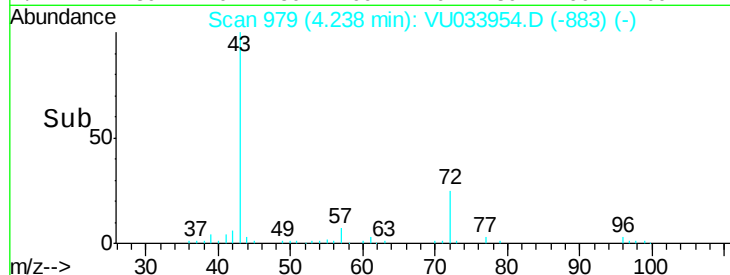
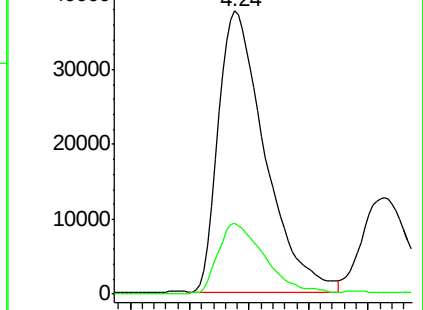
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU033956.D (-954) (-)

Ion 72.00 (71.70 to 72.70): VU033956.D (-954) (-)



#26

2,2-Dichloropropane

Concen: 4.350 ug/l

RT: 4.19 min Scan# 965

Delta R.T. -0.00 min

Lab File: VU033954.D

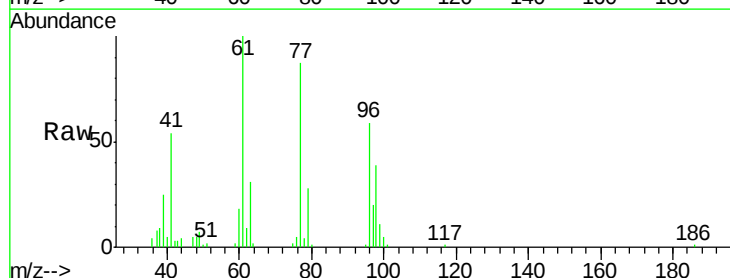
Acq: 26 Aug 2019 17:04

Tgt Ion: 77 Resp: 36247

Ion Ratio Lower Upper

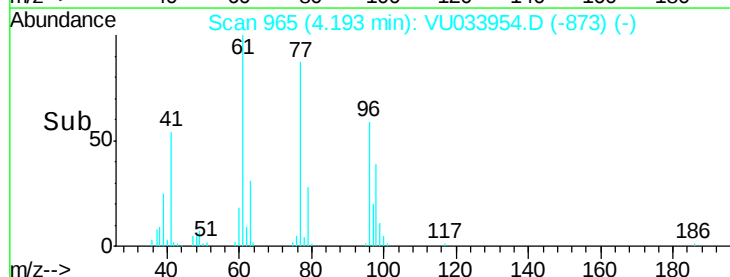
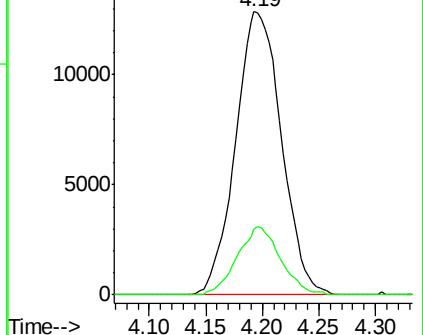
77 100

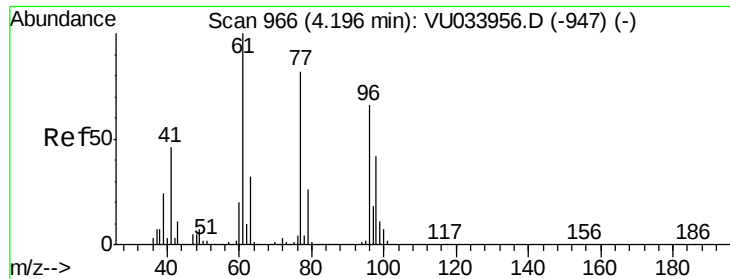
97 22.6 11.1 33.3



Abundance Ion 76.90 (76.60 to 77.60): VU033956.D (-943) (-)

Ion 96.90 (96.60 to 97.60): VU033956.D (-943) (-)





#27

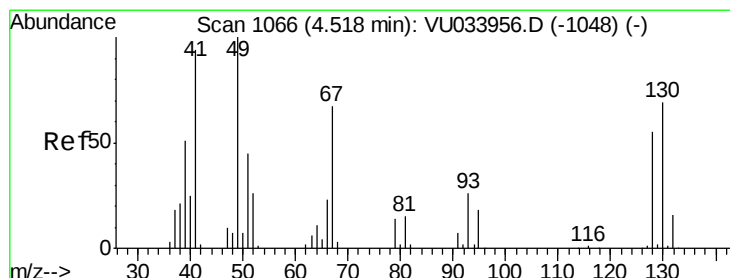
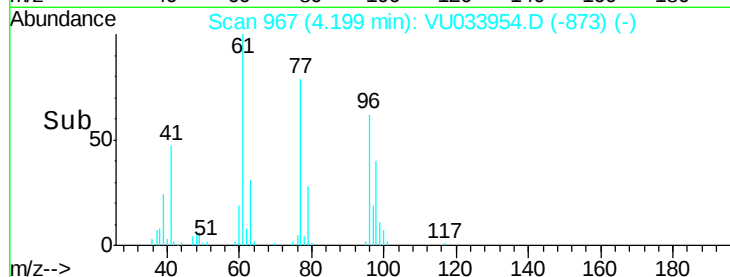
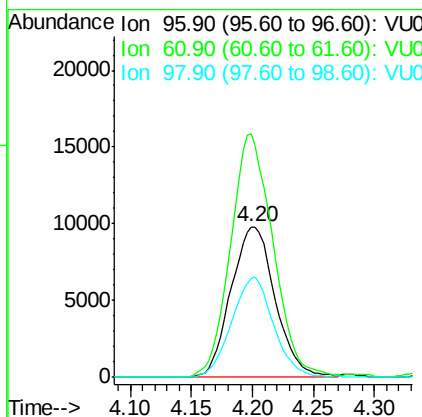
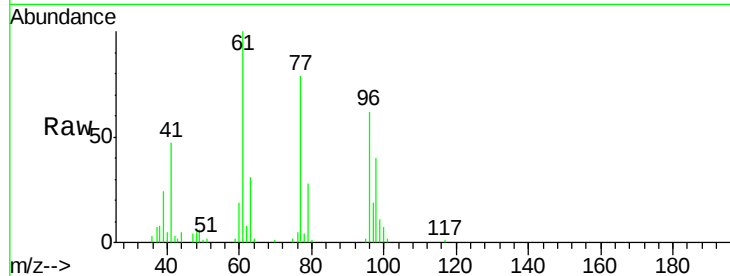
cis-1,2-Dichloroethene
Concen: 4.413 ug/l
RT: 4.20 min Scan# 967
Delta R.T. 0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	155.7	0.0	312.2
98	62.8	0.0	129.4

Manual Integrations
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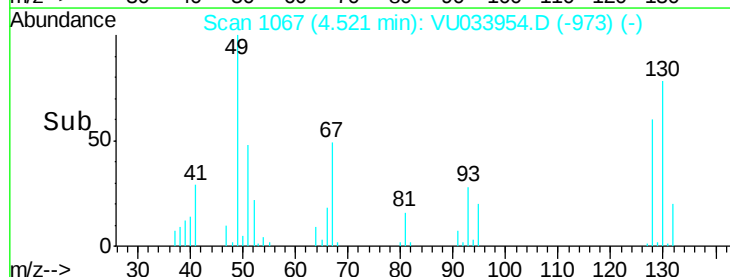
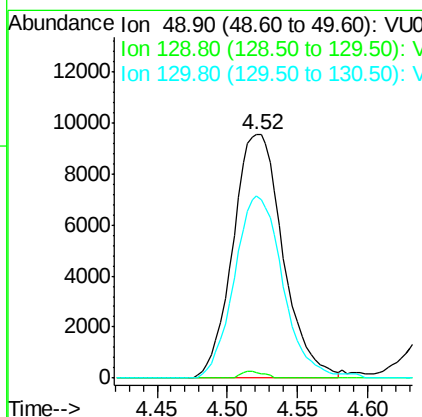
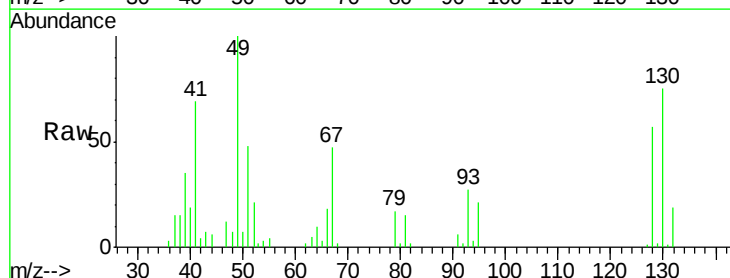
MMDadoda
8/27/2019 12:16:52 PM

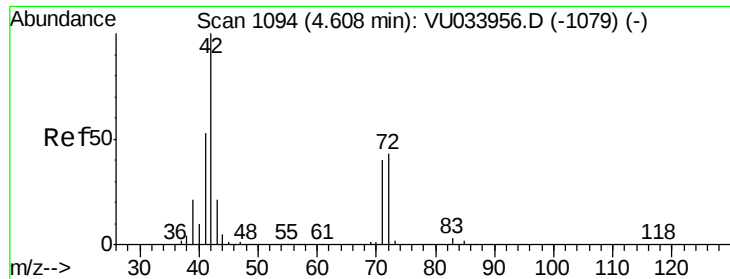


#28

Bromochloromethane
Concen: 4.975 ug/l
RT: 4.52 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	3.6
130	73.0	56.2	84.4





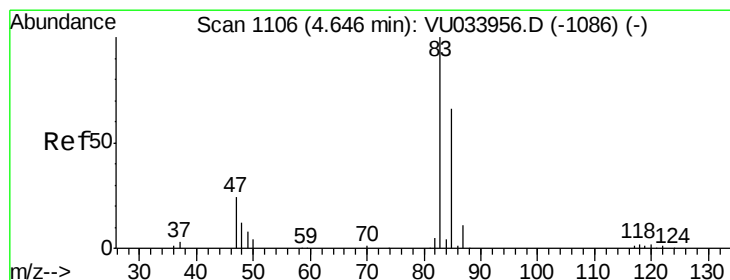
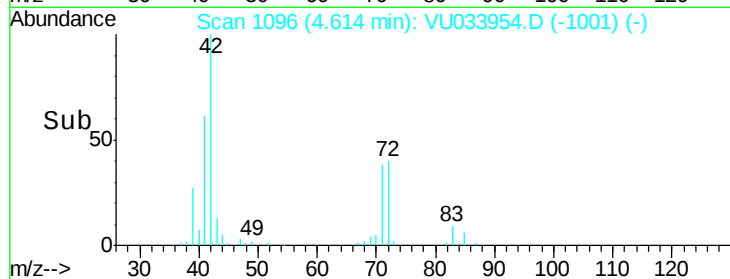
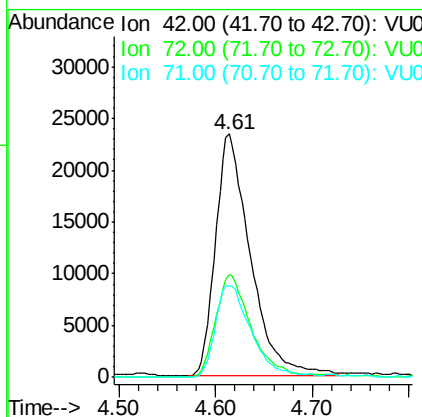
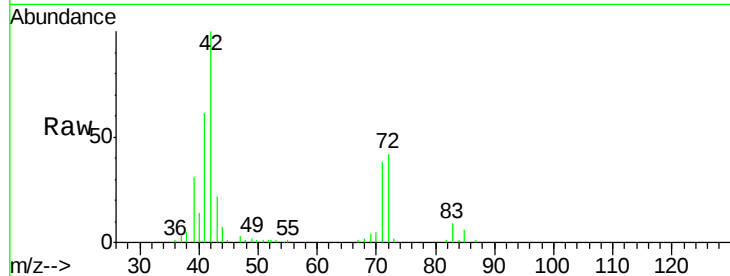
#29
Tetrahydrofuran
Concen: 17.348 ug/l
RT: 4.61 min Scan# 1096
Delta R.T. 0.01 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.5	34.6	52.0
71	38.9	32.1	48.1

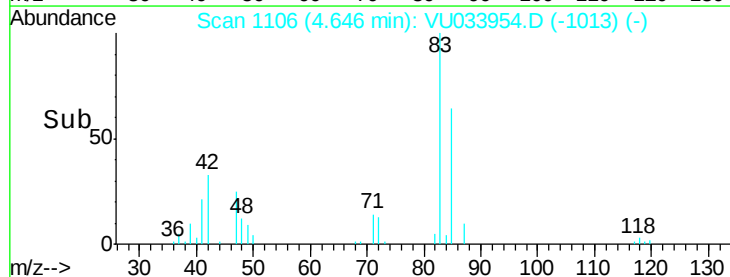
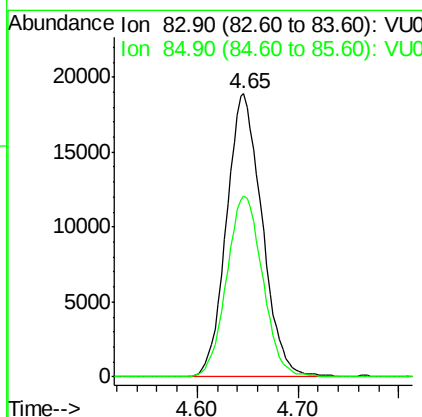
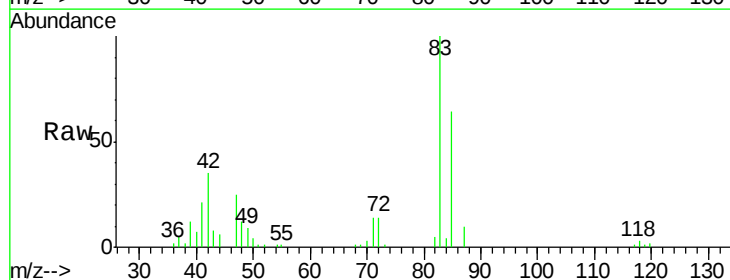
Manual Integrations
APPROVED

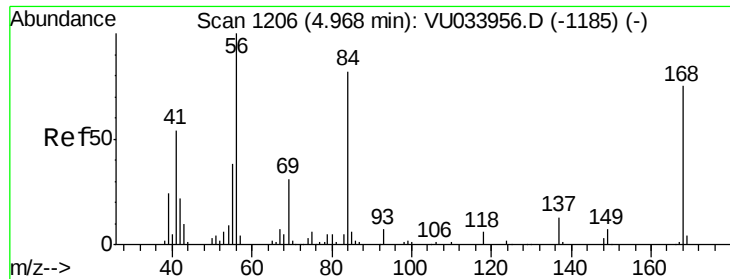
MMDadoda
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#30
Chloroform
Concen: 5.019 ug/l
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.4	78.6





#31

Cyclohexane

Concen: 3.632 ug/l

RT: 4.97 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

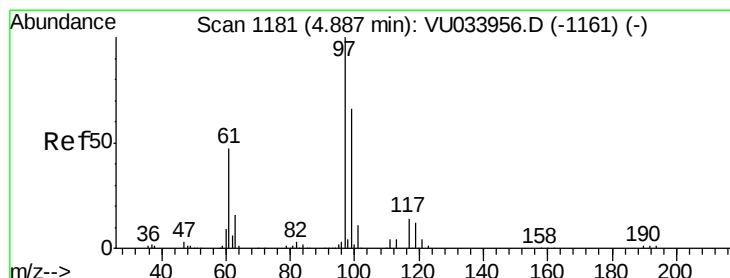
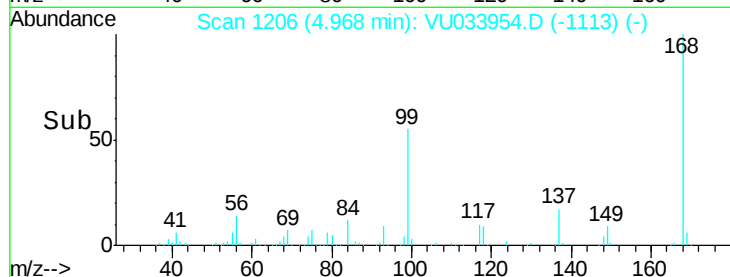
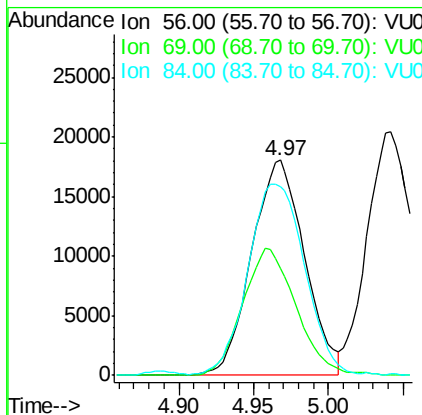
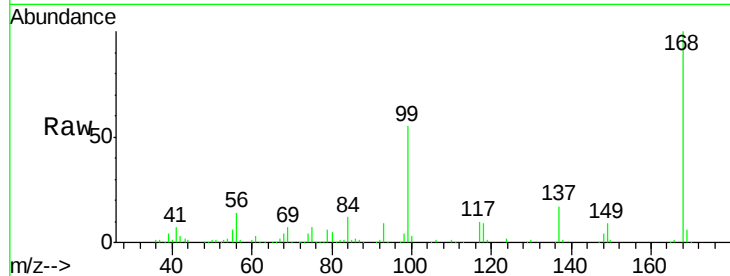
ClientSampleId :

VSTDIC005

Tot Ion:	56	Resp:	44256
Ion	Ratio	Lower	Upper
56	100		
69	49.7	24.6	37.0#
84	87.9	65.4	98.0

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 4.881 ug/l

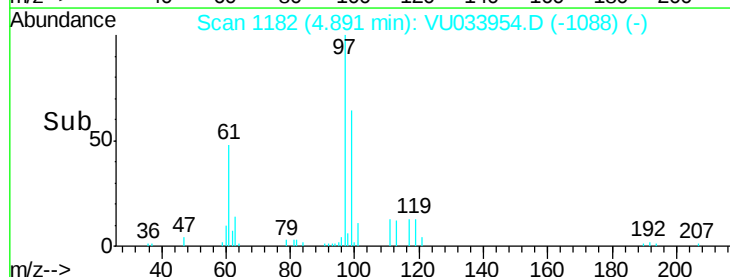
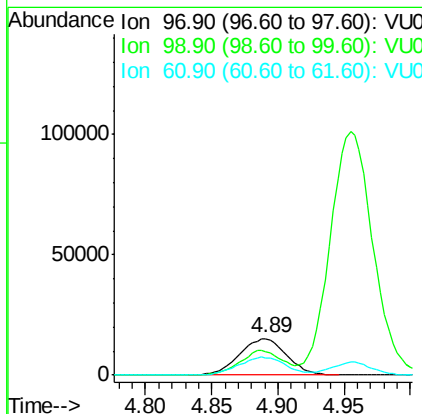
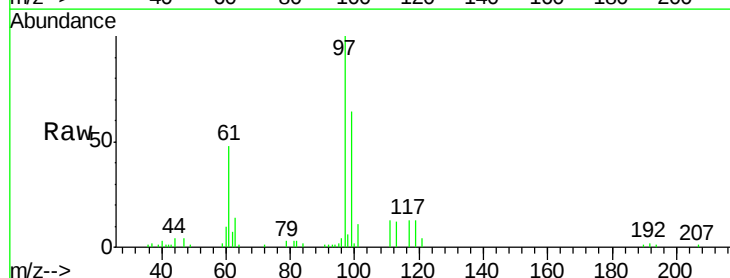
RT: 4.89 min Scan# 1182

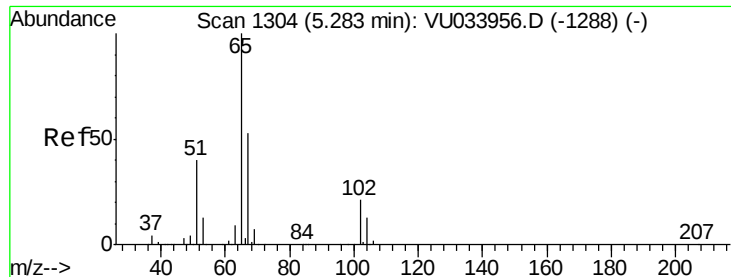
Delta R.T. 0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Tgt Ion:	97	Resp:	37461
Ion	Ratio	Lower	Upper
97	100		
99	61.5	51.4	77.0
61	49.2	38.4	57.6





#33

1,2-Dichloroethane-d4

Concen: 5.242 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 65 Resp: 31199

Ion Ratio Lower Upper

65 100

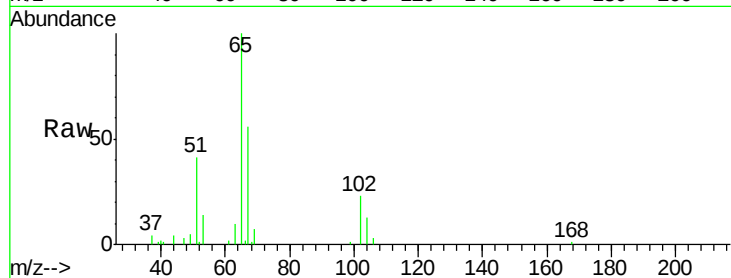
67 56.4 0.0 107.2

Manual Integrations

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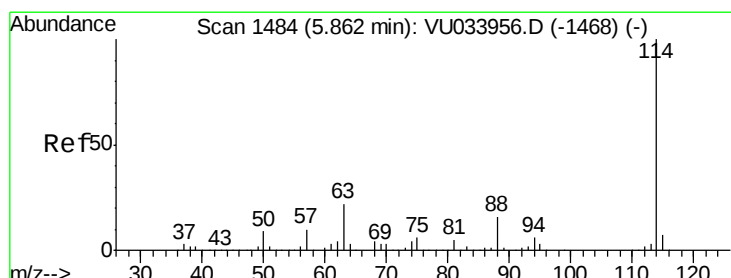
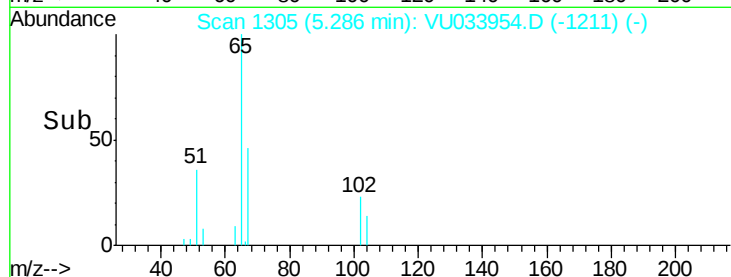


Abundance Ion 64.90 (64.60 to 65.60): VU033954.D (-1288) (-)

Ion 66.90 (66.60 to 67.60): VU033954.D (-1288) (-)

5.29

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1484

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

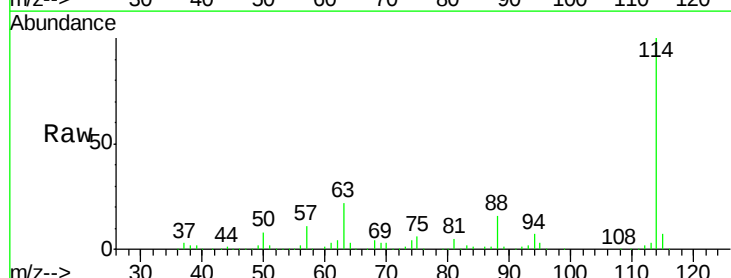
Tgt Ion: 114 Resp: 651504

Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.2

88 15.8 0.0 32.0



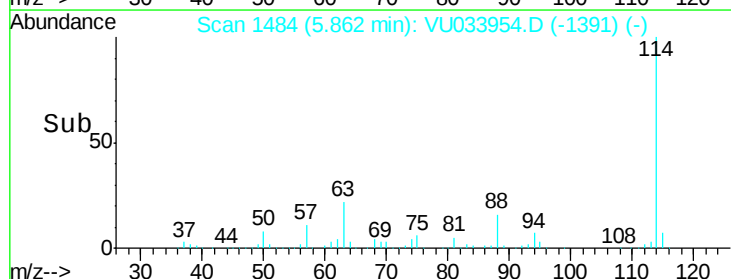
Abundance Ion 113.90 (113.60 to 114.60): VU033954.D (-1391) (-)

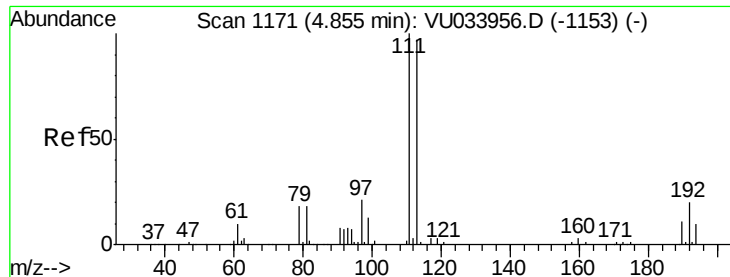
Ion 63.00 (62.70 to 63.70): VU033954.D (-1391) (-)

Ion 87.90 (87.60 to 88.60): VU033954.D (-1391) (-)

5.86

Time-->





#35

Dibromofluoromethane

Concen: 6.370 ug/l

RT: 4.86 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

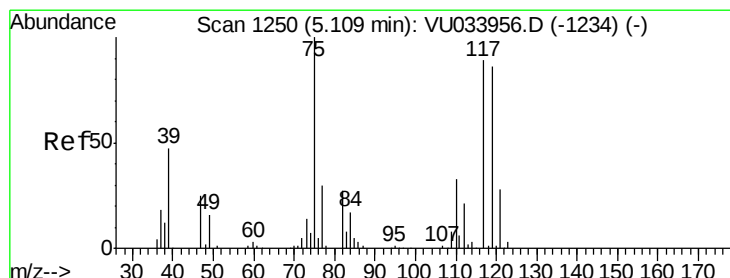
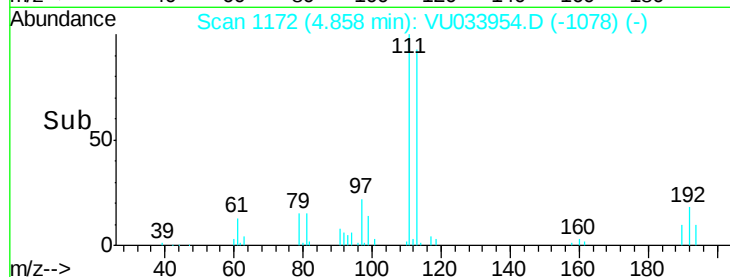
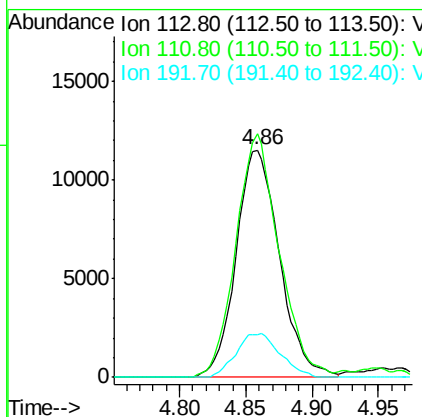
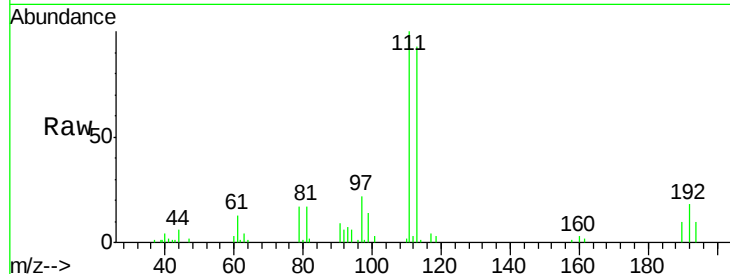
ClientSampleId :

VSTDIC005

Tot Ion:	113	Resp:	26215
Ion	Ratio	Lower	Upper
113	100		
111	106.6	82.0	123.0
192	19.6	16.2	24.4

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 4.269 ug/l

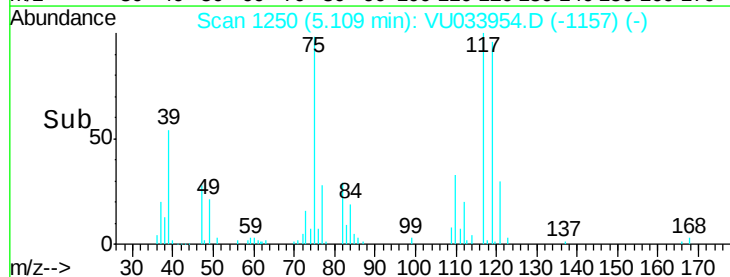
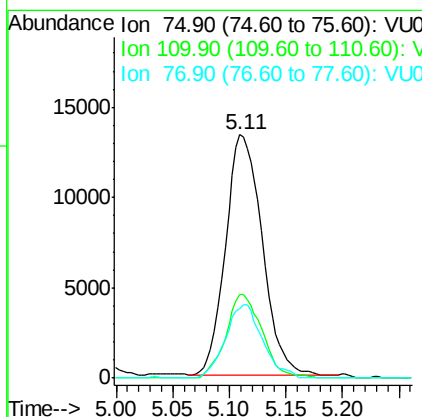
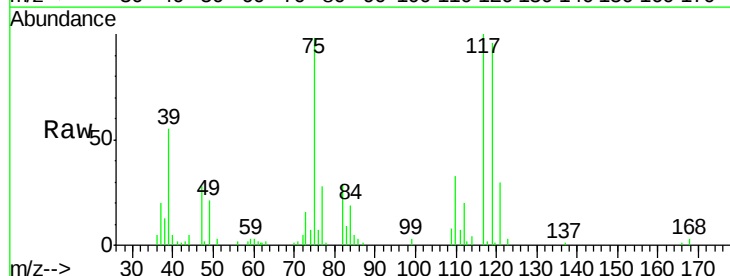
RT: 5.11 min Scan# 1250

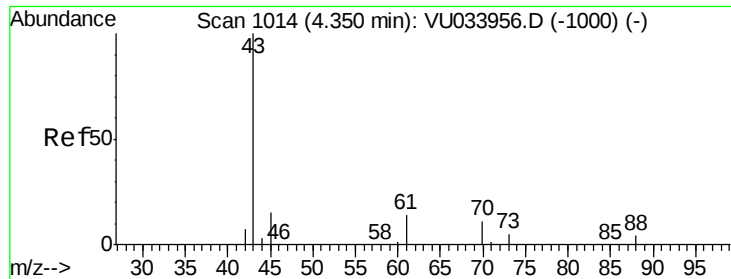
Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Tgt Ion:	75	Resp:	30161
Ion	Ratio	Lower	Upper
75	100		
110	34.1	16.8	50.4
77	30.6	24.7	37.1





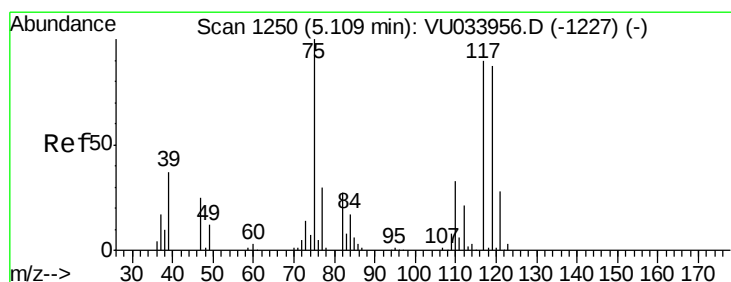
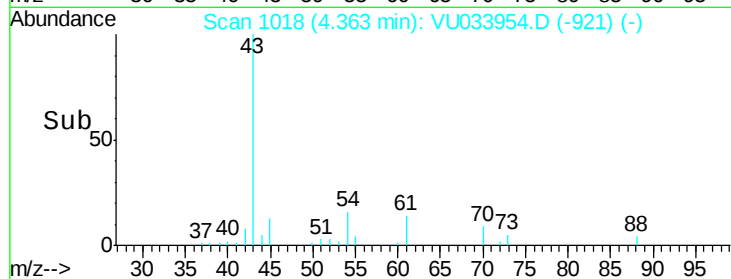
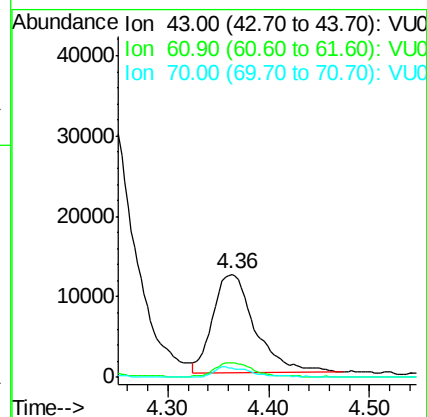
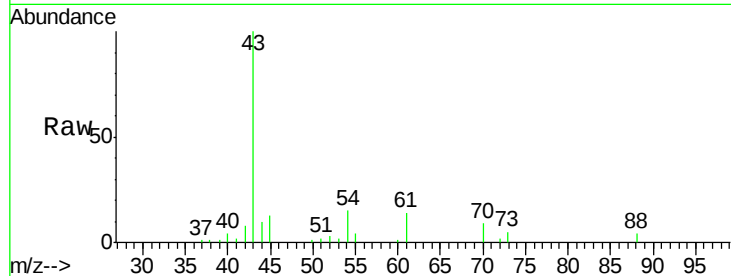
#37
Ethyl Acetate
Concen: 3.986 ug/l
RT: 4.36 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.8	11.0	16.6
70	8.7	8.2	12.4

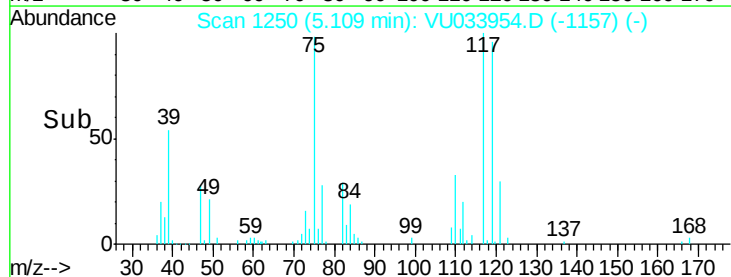
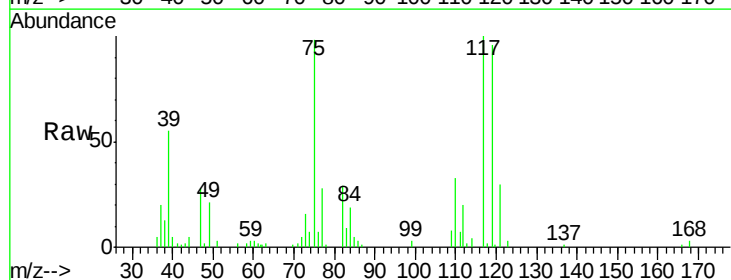
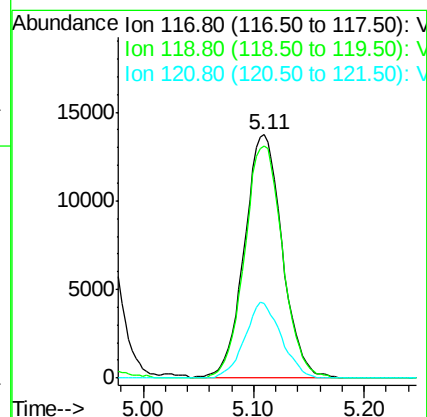
Manual Integrations
APPROVED

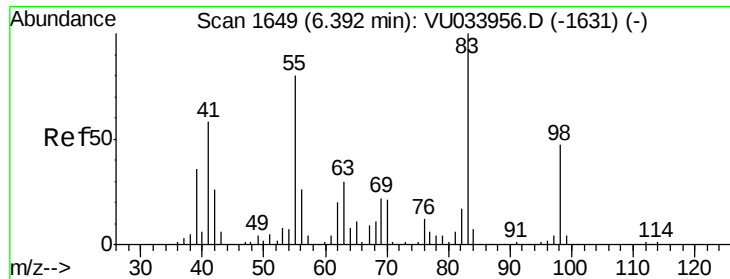
MMDadoda
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#38
Carbon Tetrachloride
Concen: 5.561 ug/l
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.9	115.3
121	30.5	24.9	37.3





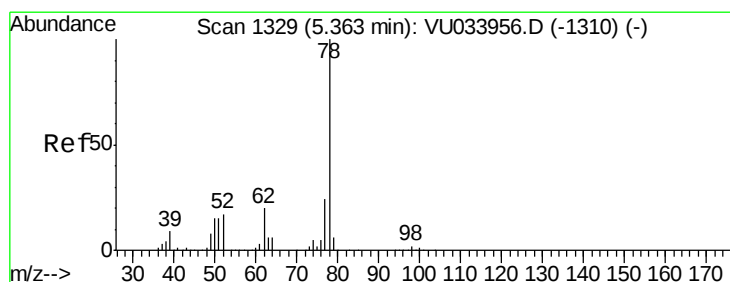
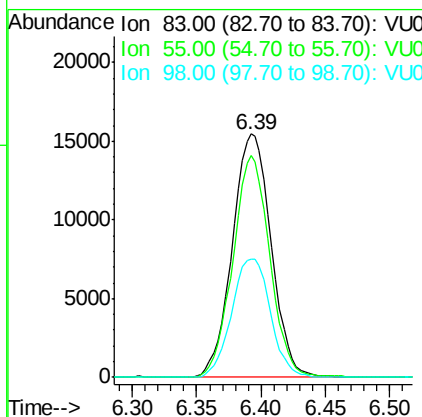
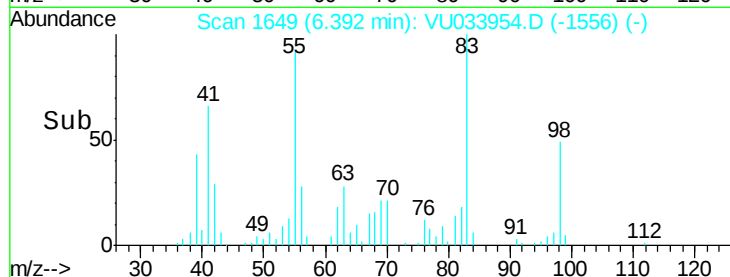
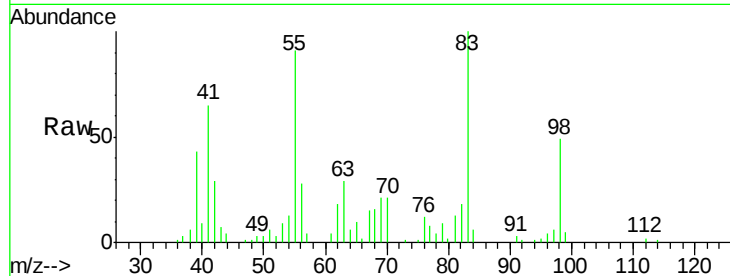
#39
Methylvlcvclohexane
Concen: 3.762 ug/l
RT: 6.39 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	91.2	63.8	95.8
98	48.8	37.7	56.5

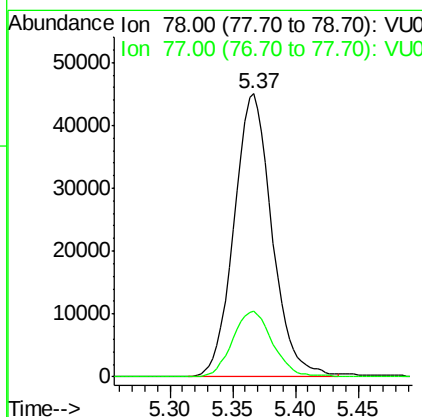
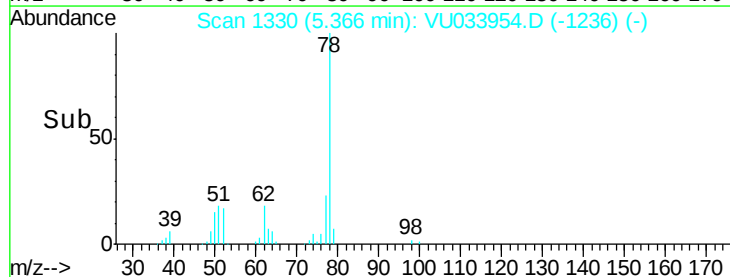
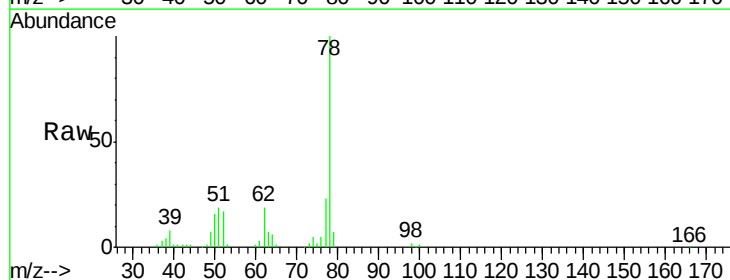
Manual Integrations
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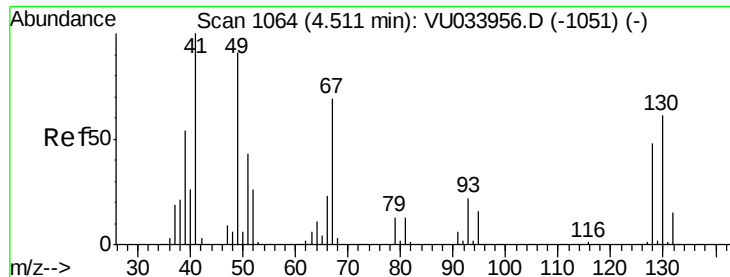
MMDadoda
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#40
Benzene
Concen: 4.567 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4





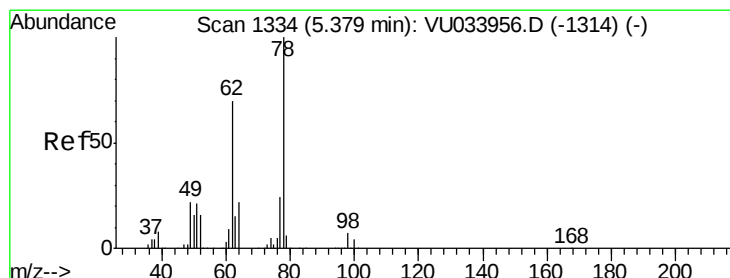
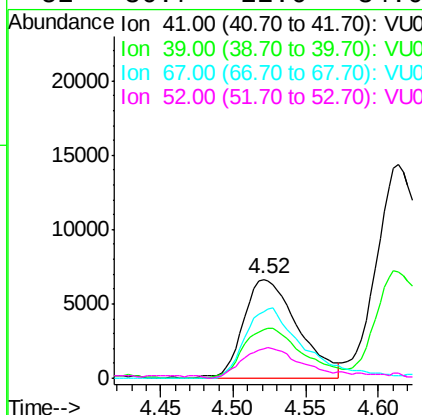
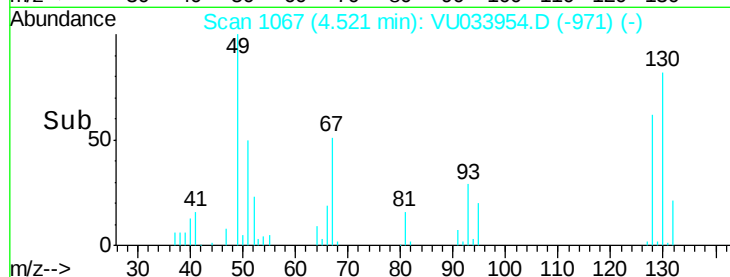
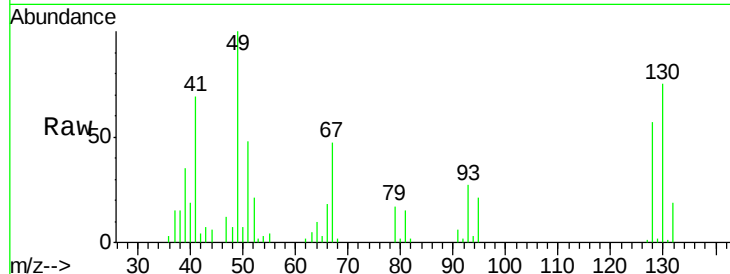
#41
Methacrylonitrile
Concen: 3.524 ug/l
RT: 4.52 min Scan# 1067
Delta R.T. 0.01 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	55.6	43.3	64.9	
67	76.6	57.5	86.3	
52	36.7	22.6	34.0	

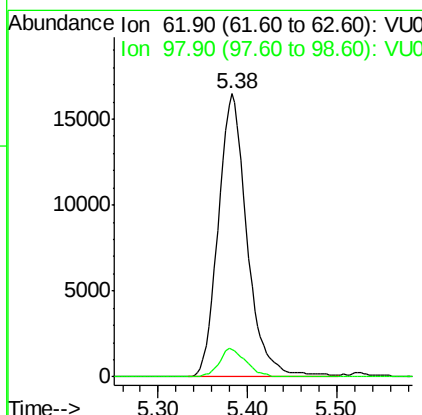
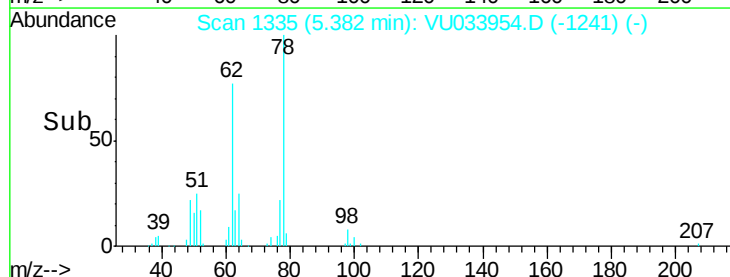
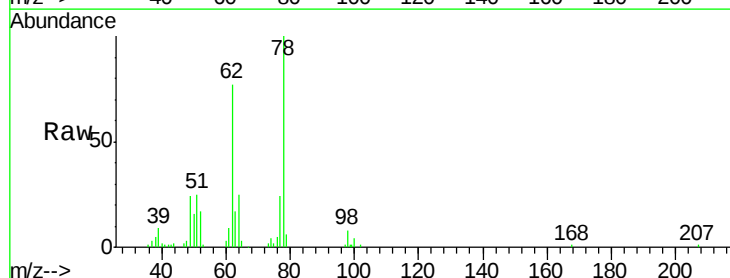
Manual Integrations
APPROVED

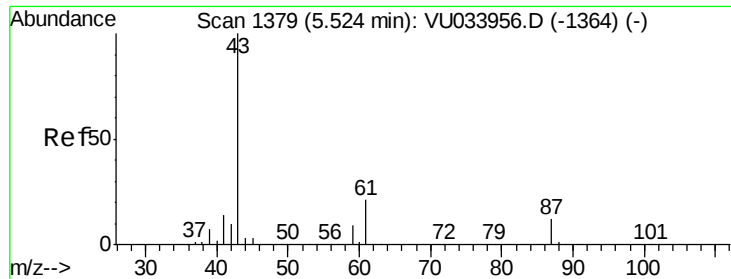
MMDadoda
8/27/2019 12:16:52 PM



#42
1,2-Dichloroethane
Concen: 5.012 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.3	0.0	18.2	





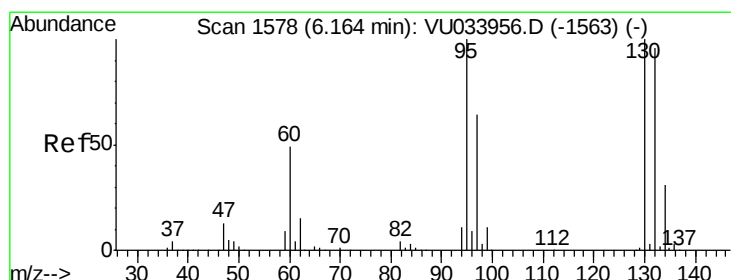
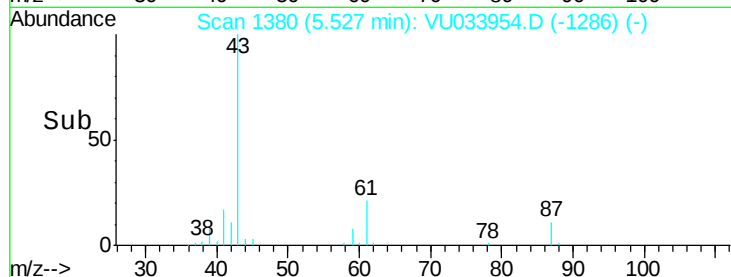
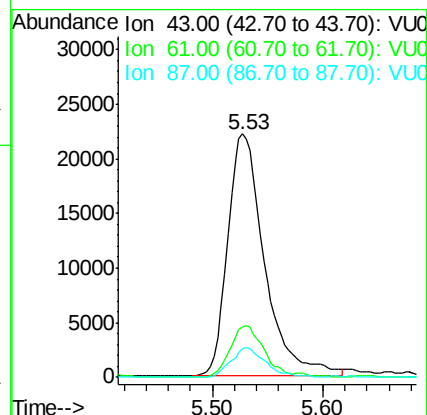
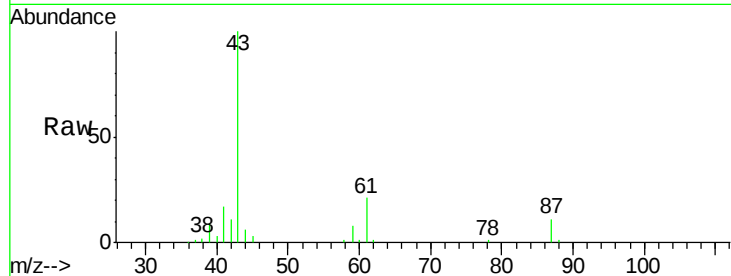
#43
Isopropyl Acetate
Concen: 3.613 ug/l
RT: 5.53 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.5	16.1	24.1
87	11.5	9.9	14.9

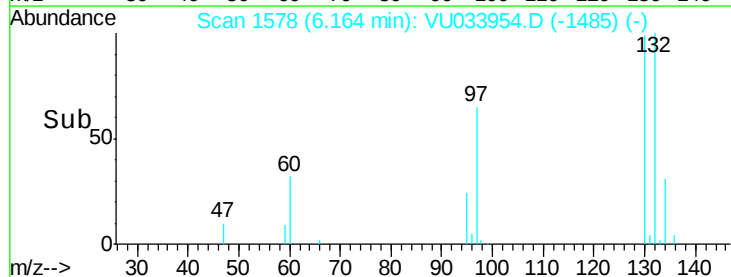
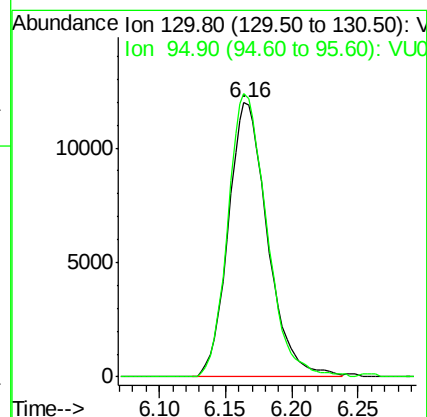
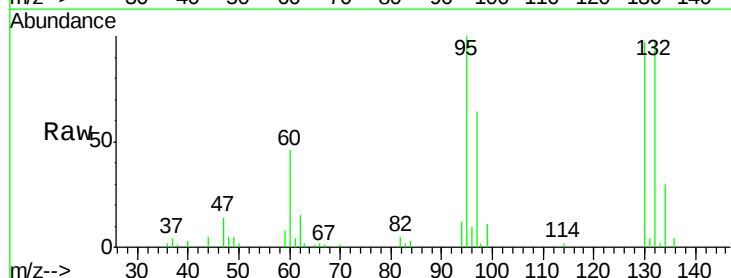
Manual Integrations
APPROVED

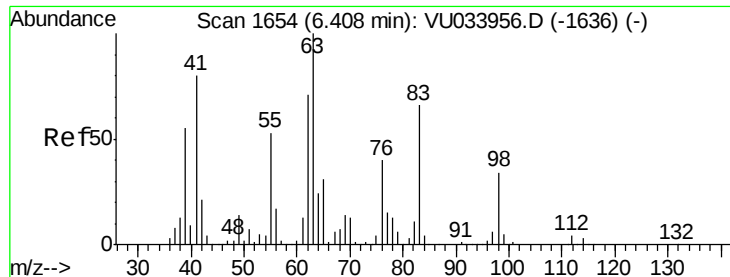
MMDadoda
8/27/2019 12:16:52 PM



#44
Trichloroethene
Concen: 5.200 ug/l
RT: 6.16 min Scan# 1578
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.4	0.0	200.4





#45

1,2-Dichloropropane

Concen: 4.666 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 27127

Ion Ratio Lower Upper

63 100

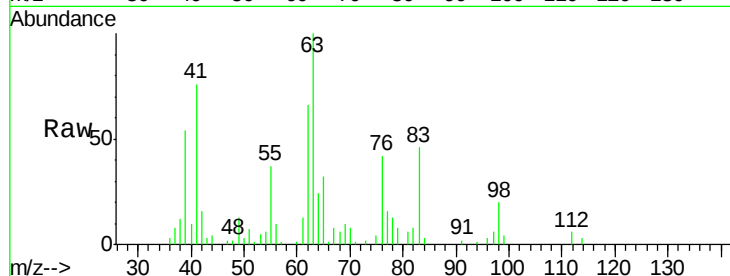
65 32.4 25.0 37.4

Manual Integrations

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8/27/2019 12:16:52 PM



Abundance Ion 62.90 (62.60 to 63.60): VU033956.D (-1636) (-)

Ion 64.90 (64.60 to 65.60): VU033956.D (-1636) (-)

6.41

15000

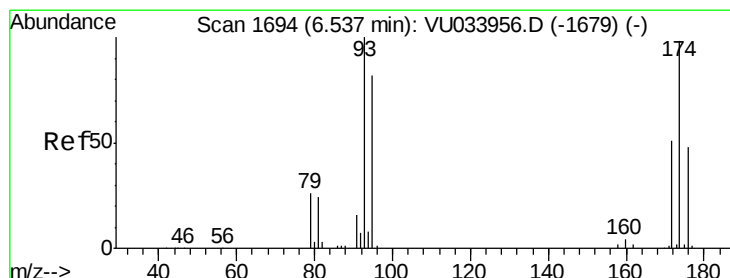
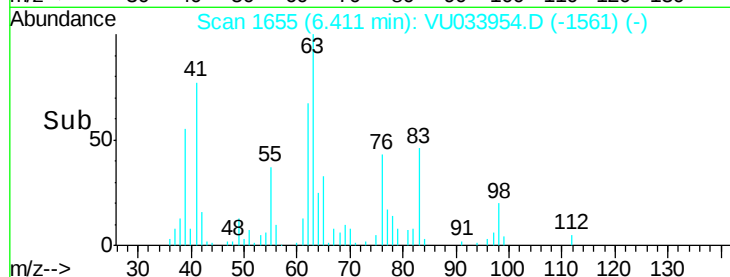
10000

5000

0

6.35 6.40 6.45 6.50

Time-->



#46

Dibromomethane

Concen: 4.945 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

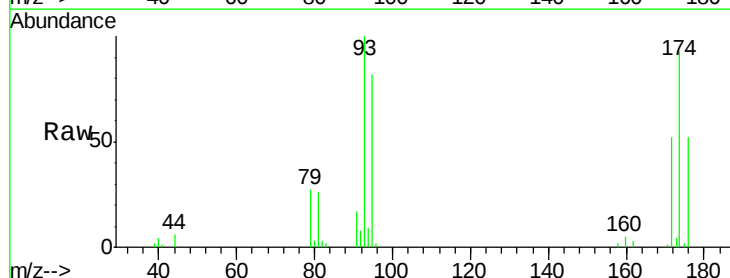
Tgt Ion: 93 Resp: 17323

Ion Ratio Lower Upper

93 100

95 84.9 67.3 100.9

174 96.8 79.7 119.5



Abundance Ion 92.80 (92.50 to 93.50): VU033956.D (-1679) (-)

Ion 94.80 (94.50 to 95.50): VU033956.D (-1679) (-)

Ion 173.70 (173.40 to 174.40): VU033956.D (-1679) (-)

6.54

10000

8000

6000

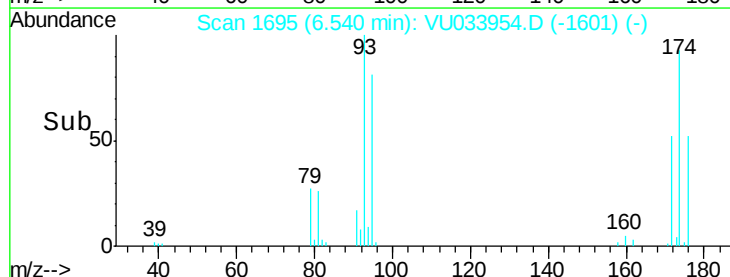
4000

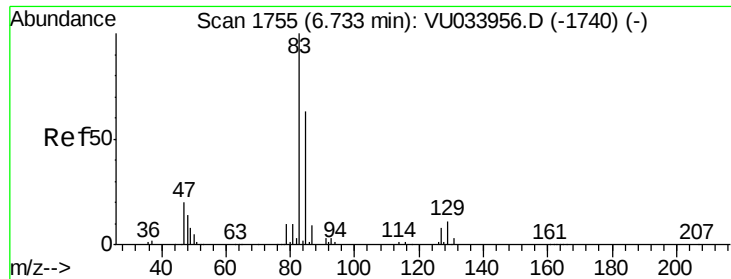
2000

0

6.50 6.55 6.60

Time-->





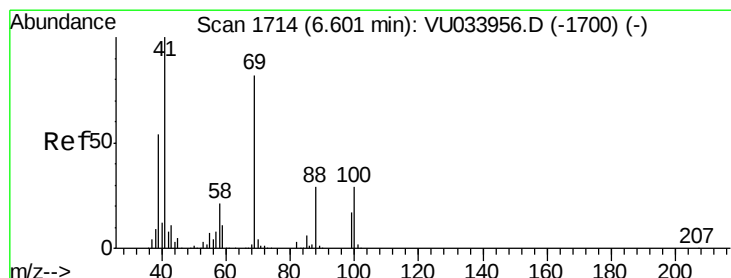
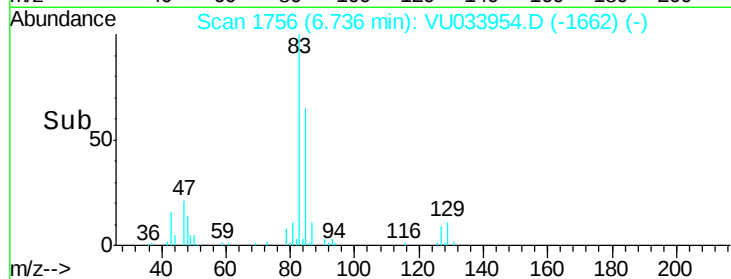
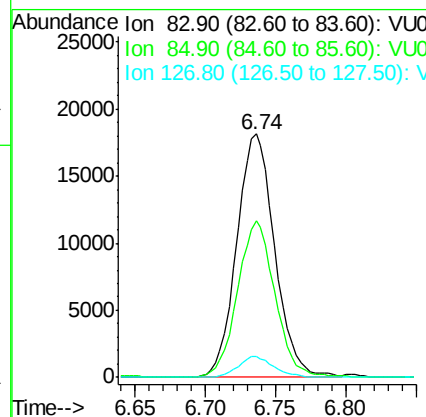
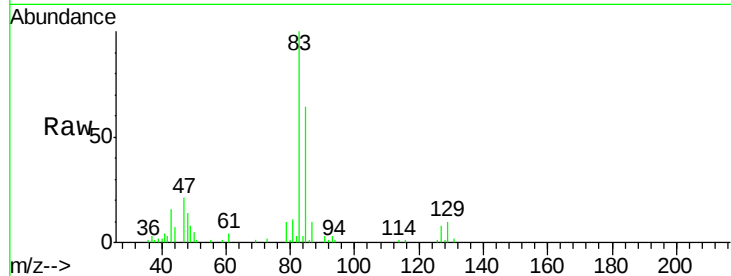
#47
 Bromodichloromethane
 Concen: 4.992 ug/l
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	83	Resp	34327
Ion Ratio	100	Lower	Upper
83	100		
85	64.1	50.5	75.7
127	8.3	6.6	9.8

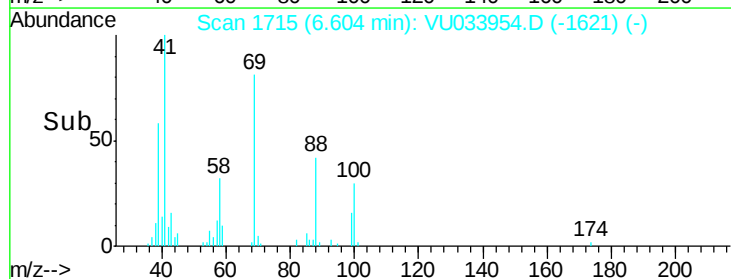
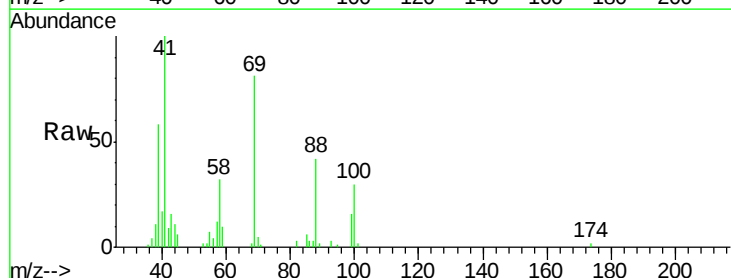
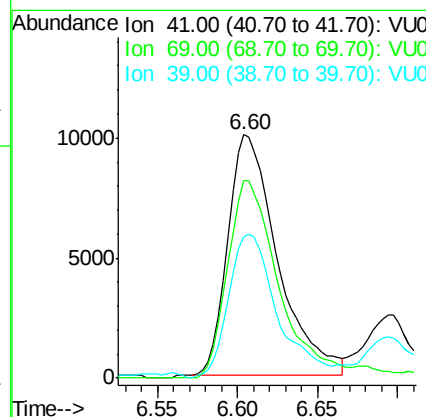
Manual Integrations
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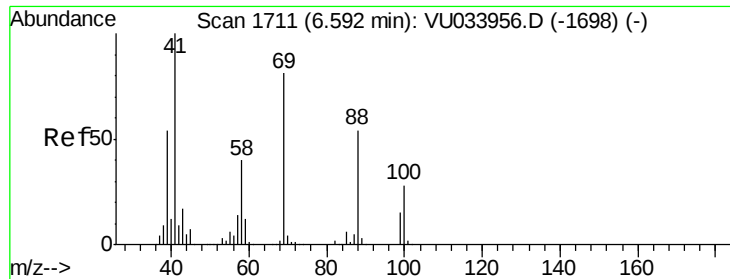
MMDadoda
 8/27/2019 12:16:52 PM



#48
 Methyl methacrylate
 Concen: 3.073 ug/l
 RT: 6.60 min Scan# 1715
 Delta R.T. 0.00 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Tgt Ion	41	Resp	21460
Ion Ratio	100	Lower	Upper
41	100		
69	83.5	66.9	100.3
39	58.3	43.3	64.9





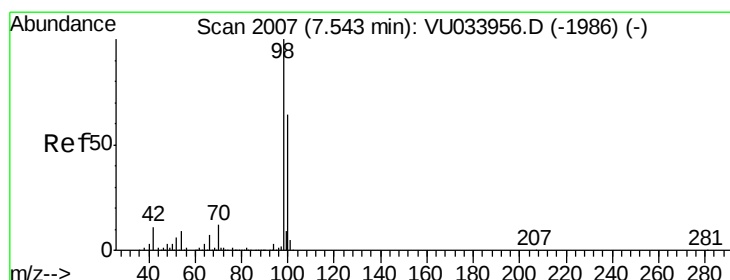
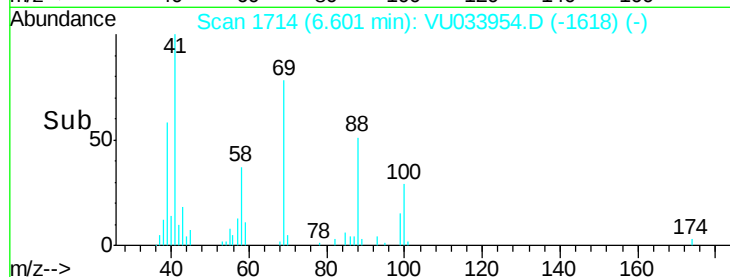
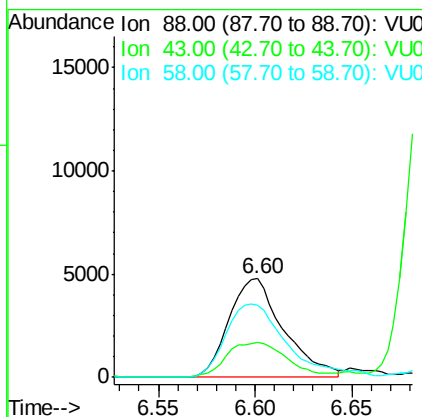
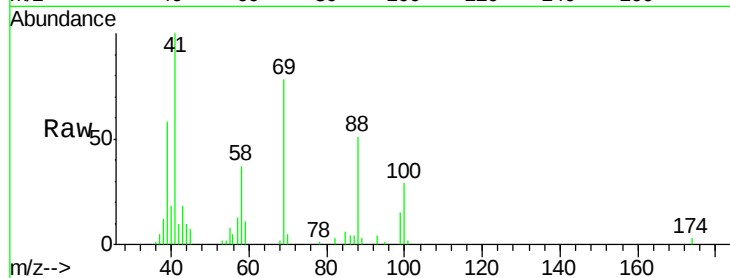
#49
1,4-Dioxane
Concen: 80.221 ug/l
RT: 6.60 min Scan# 1714
Delta R.T. 0.01 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.1	27.2	40.8
58	83.4	59.3	88.9

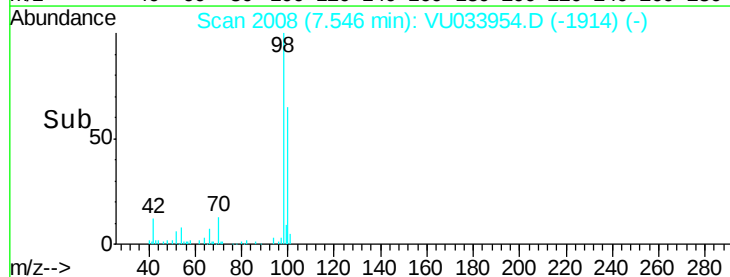
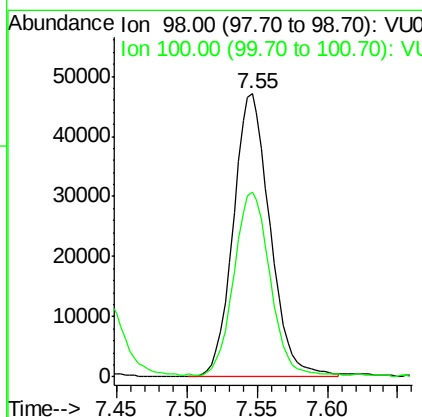
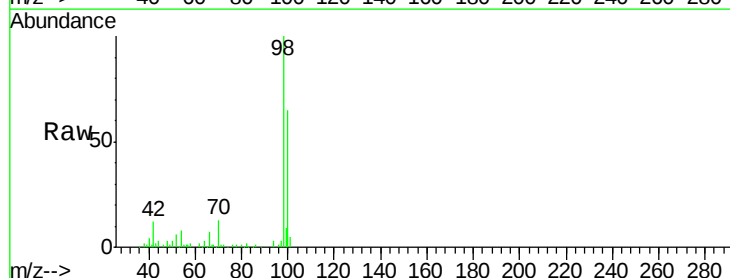
Manual Integrations
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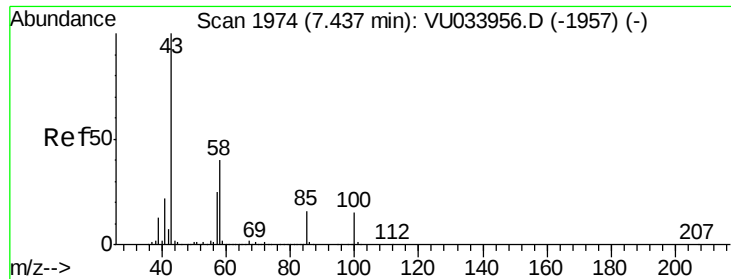
MMDadoda
8/27/2019 12:16:52 PM



#50
Toluene-d8
Concen: 5.318 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.8	77.6





#51

4-Methyl-2-Pentanone

Concen: 19.554 ug/l

RT: 7.44 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 176685

Ion Ratio Lower Upper

43 100

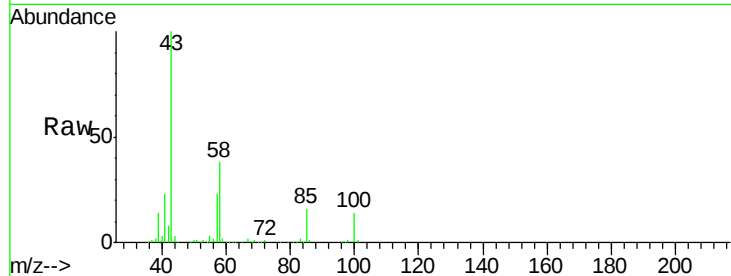
58 37.5 31.6 47.4

Manual Integrations

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MMDadoda

8/27/2019 12:16:52 PM



Abundance Ion 43.00 (42.70 to 43.70): VU033956.D (-1957) (-)

Ion 58.00 (57.70 to 58.70): VU033956.D (-1957) (-)

7.44

100000

80000

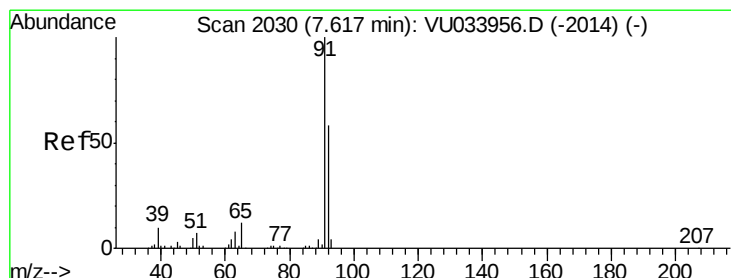
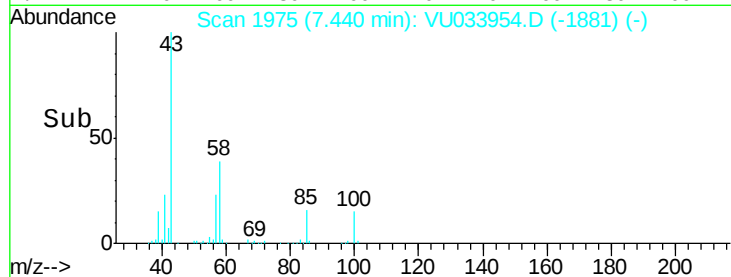
60000

40000

20000

0

Time-->



#52

Toluene

Concen: 4.465 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033954.D

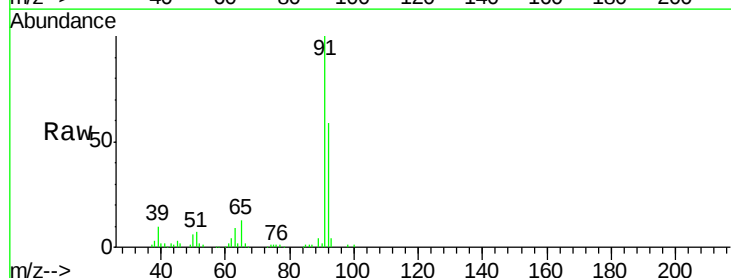
Acq: 26 Aug 2019 17:04

Tgt Ion: 92 Resp: 54967

Ion Ratio Lower Upper

92 100

91 173.7 137.5 206.3



Abundance Ion 92.00 (91.70 to 92.70): VU033956.D (-1914) (-)

Ion 91.00 (90.70 to 91.70): VU033956.D (-1914) (-)

7.62

60000

50000

40000

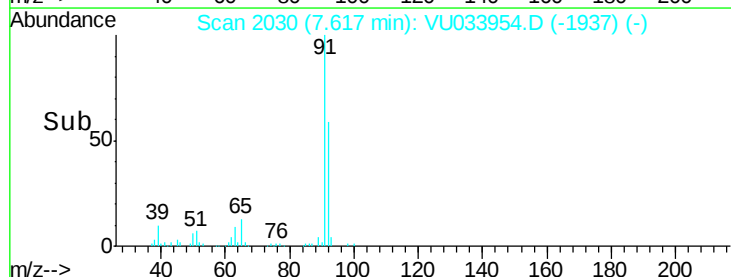
30000

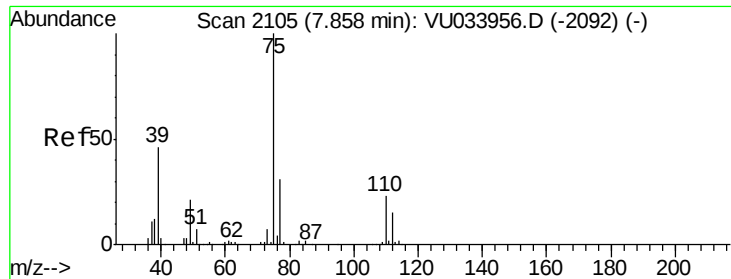
20000

10000

0

Time-->





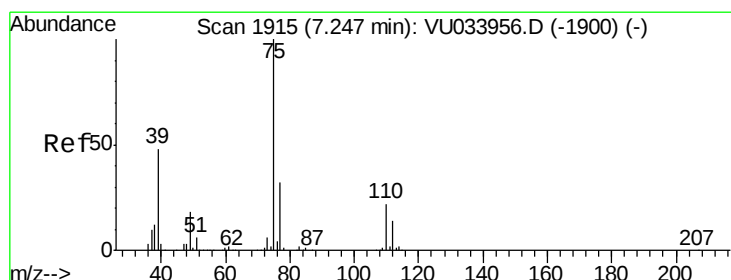
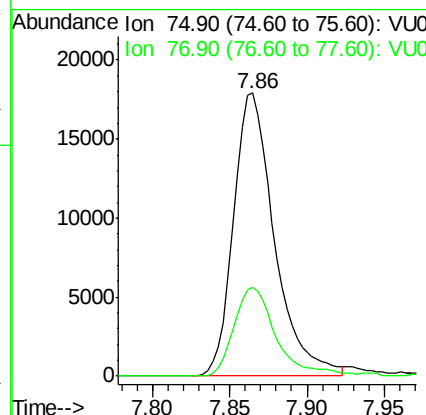
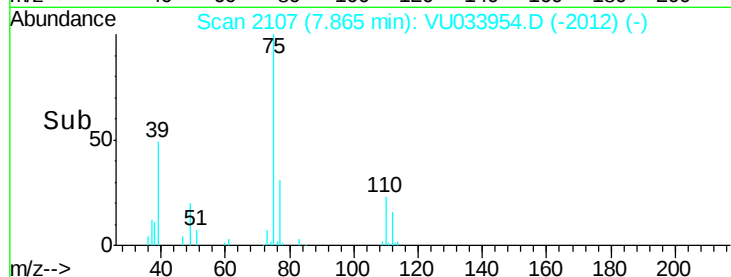
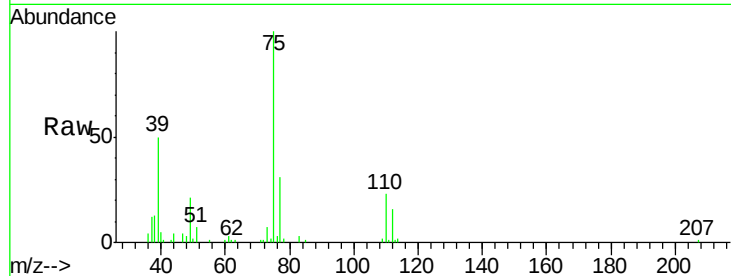
#53
t-1,3-Dichloropropene
Concen: 4.079 ug/l
RT: 7.86 min Scan# 2107
Delta R.T. 0.01 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 75 Resp: 32942
Ion Ratio Lower Upper
75 100
77 31.3 24.9 37.3

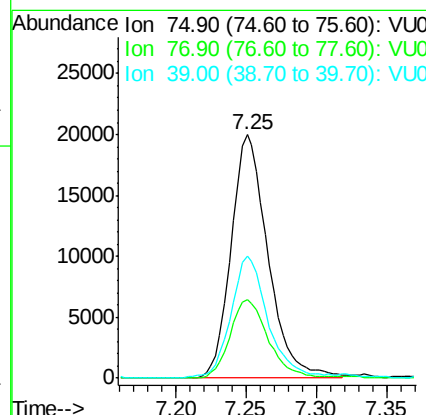
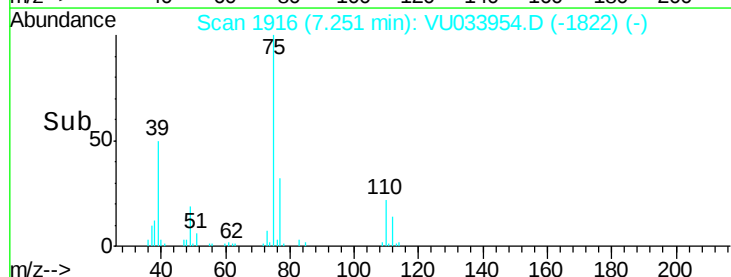
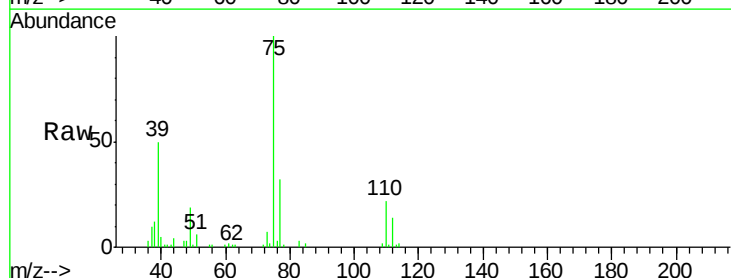
Manual Integrations
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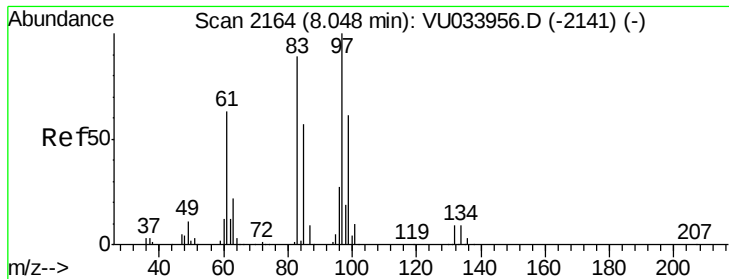
MMDadoda
8/27/2019 12:16:52 PM



#54
cis-1,3-Dichloropropene
Concen: 4.180 ug/l
RT: 7.25 min Scan# 1916
Delta R.T. 0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion: 75 Resp: 36662
Ion Ratio Lower Upper
75 100
77 32.1 25.4 38.0
39 49.3 38.3 57.5





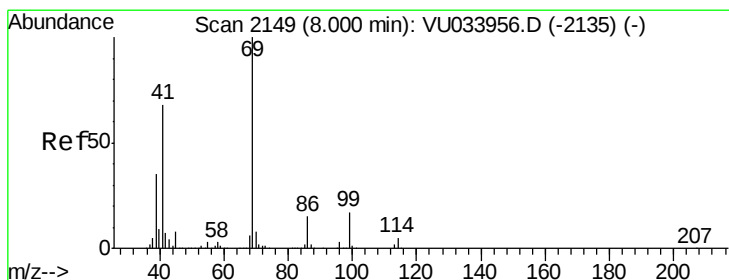
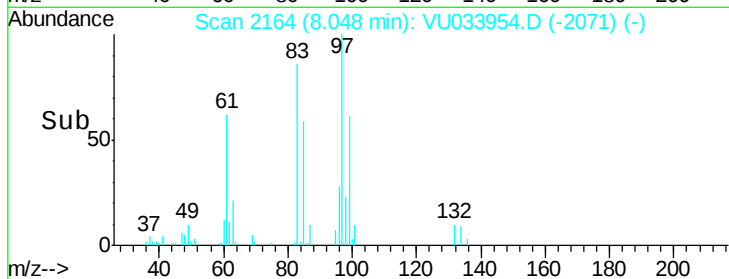
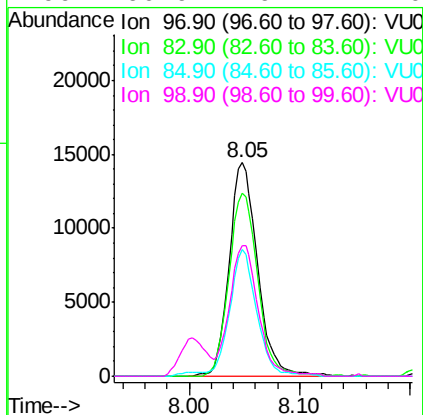
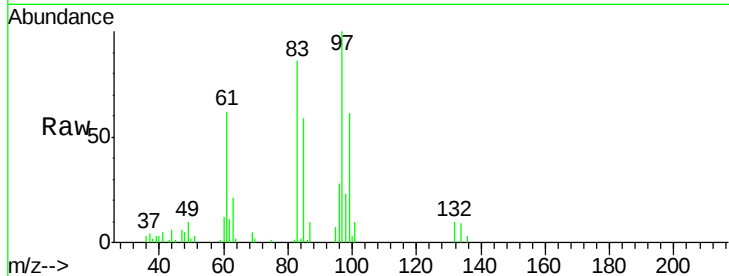
#55
 1,1,2-Trichloroethane
 Concen: 5.270 ug/l
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:	97	Resp:	25801
Ion	Ratio	Lower	Upper
97	100		
83	85.5	71.0	106.4
85	59.2	45.5	68.3
99	60.9	49.4	74.0

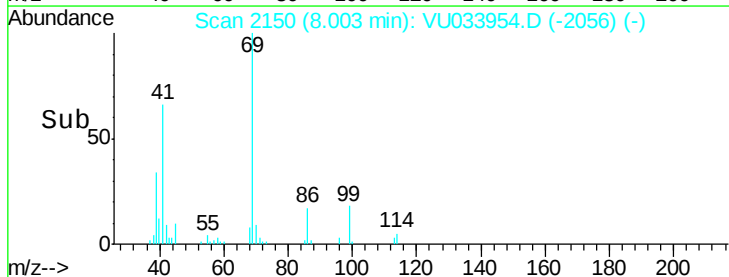
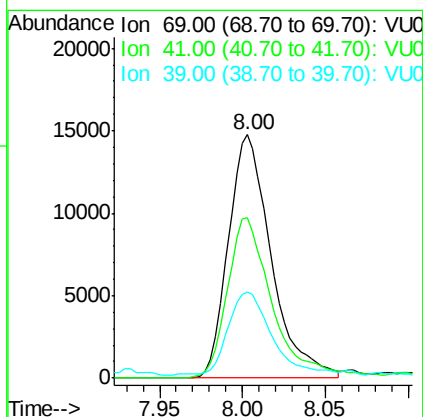
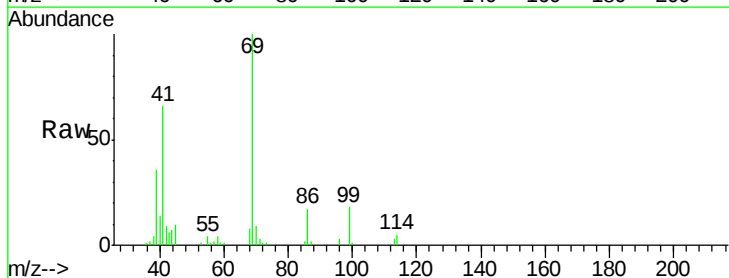
Manual Integrations
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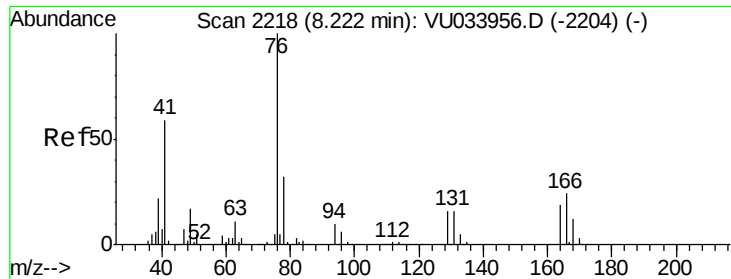
MMDadoda
 8/27/2019 12:16:52 PM



#56
 Ethyl methacrylate
 Concen: 3.227 ug/l
 RT: 8.00 min Scan# 2150
 Delta R.T. 0.00 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Tgt Ion:	69	Resp:	26519
Ion	Ratio	Lower	Upper
69	100		
41	69.6	54.1	81.1
39	34.8	28.1	42.1





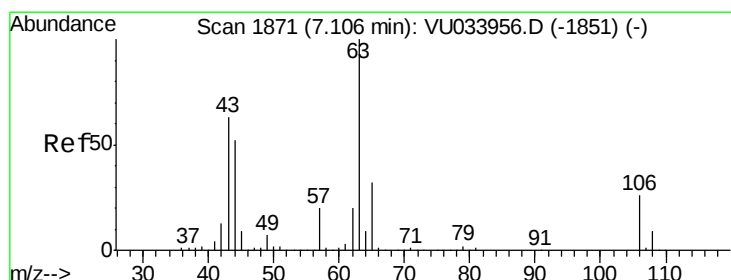
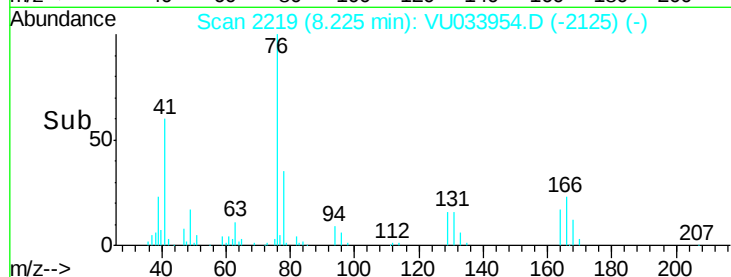
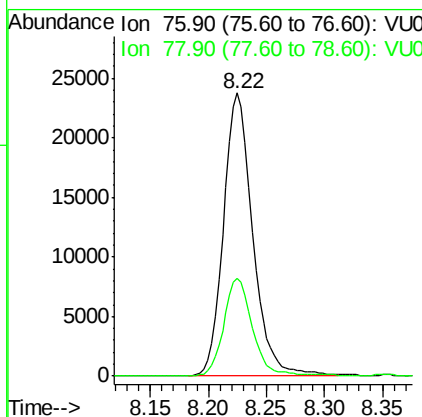
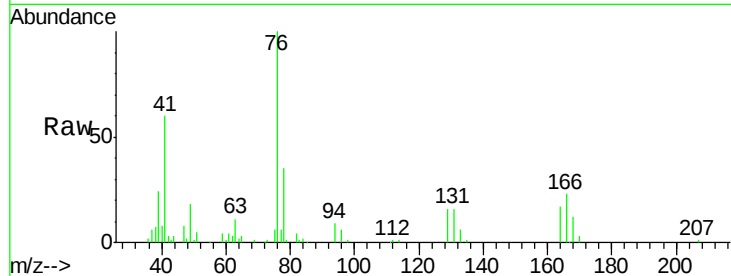
#57
 1,3-Dichloropropane
 Concen: 4.604 ug/l
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDIC005

Tot Ion: 76 Resp: 41758
 Ion Ratio Lower Upper
 76 100
 78 33.5 25.4 38.2

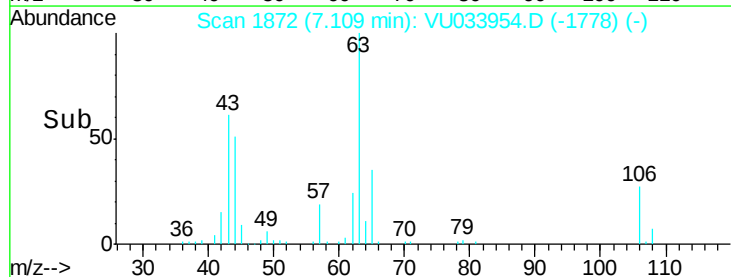
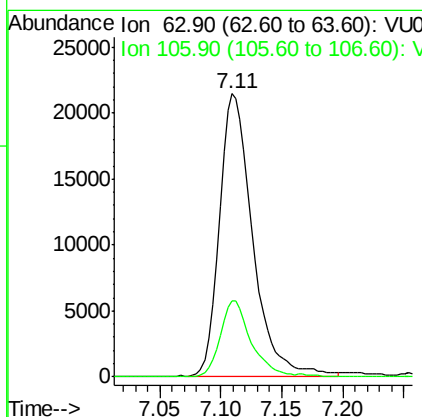
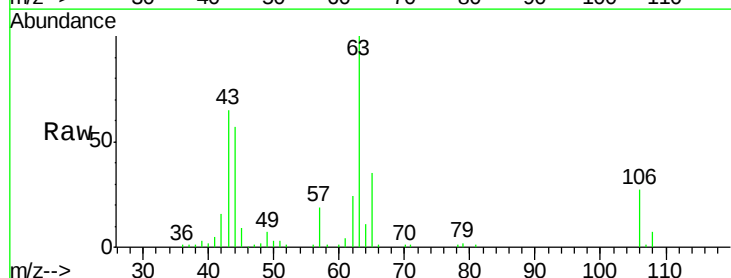
Manual Integrations
 APPROVED

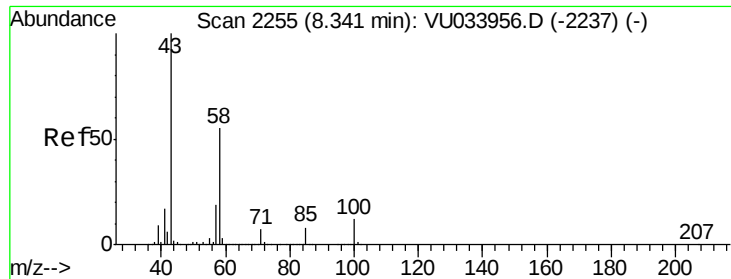
MMDadoda
 8/27/2019 12:16:52 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 10.221 ug/l
 RT: 7.11 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Tgt Ion: 63 Resp: 41293
 Ion Ratio Lower Upper
 63 100
 106 24.7 20.8 31.2





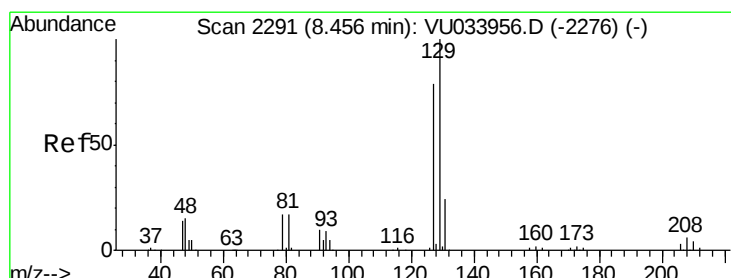
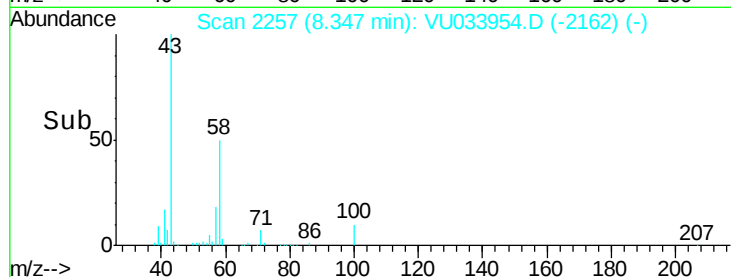
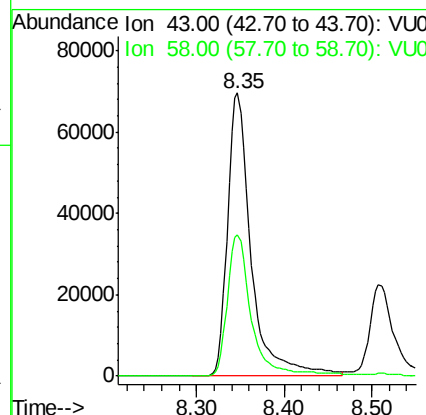
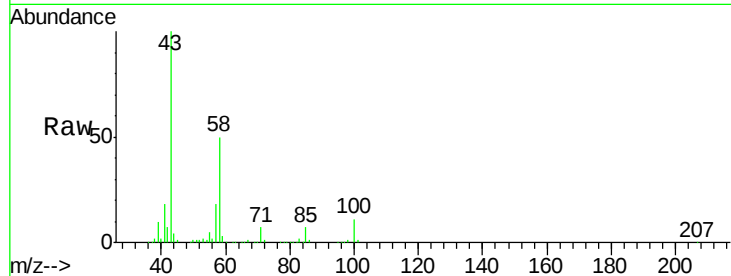
#59
2-Hexanone
Concen: 18.181 ug/l
RT: 8.35 min Scan# 2257
Delta R.T. 0.01 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
43	100	129933		
58	49.2	27.3	81.9	

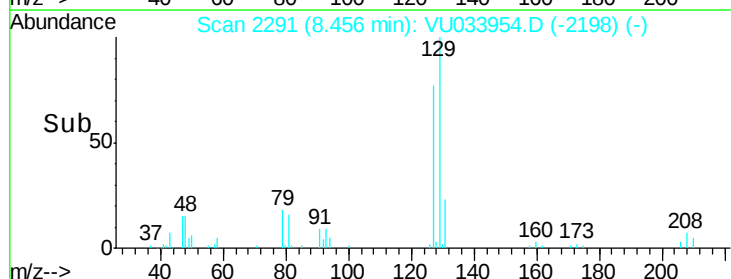
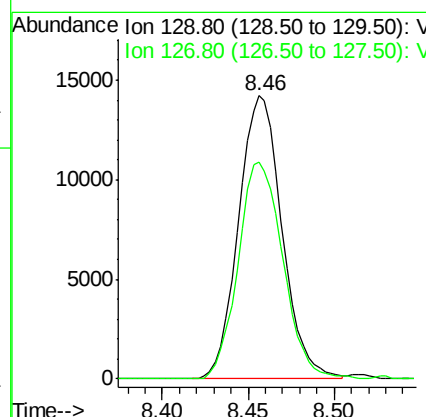
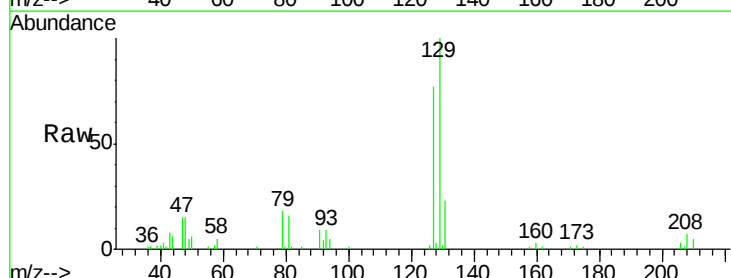
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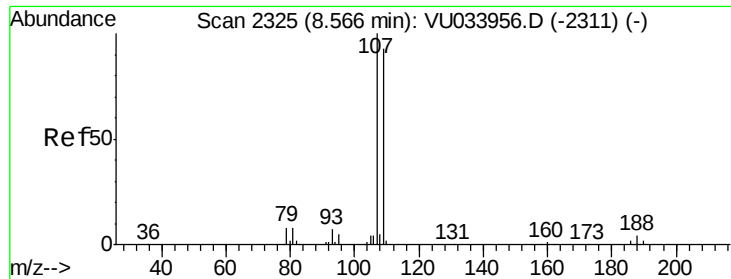
MMDadoda
8/27/2019 12:16:52 PM



#60
Dibromochloromethane
Concen: 5.115 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Resp	Lower	Upper
129	100	24983		
127	79.0	38.9	116.7	





#61

1,2-Dibromoethane

Concen: 4.977 ug/l

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:107 Resp: 25644

Ion Ratio Lower Upper

107 100

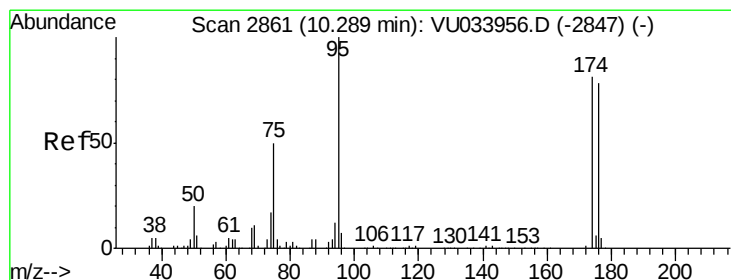
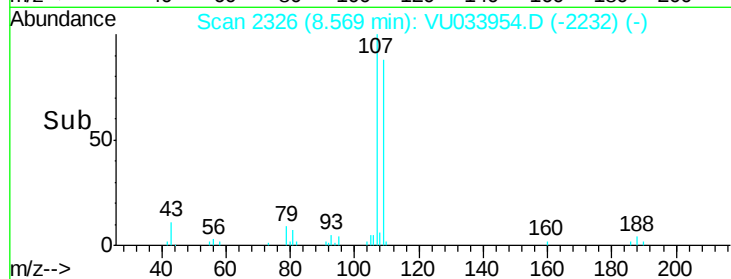
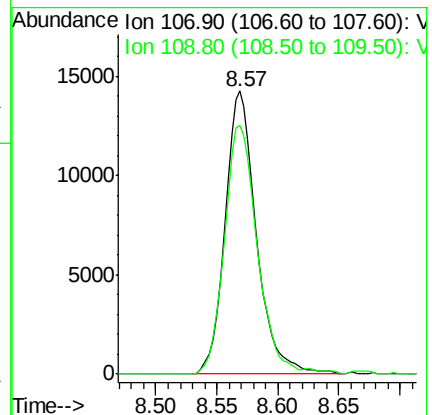
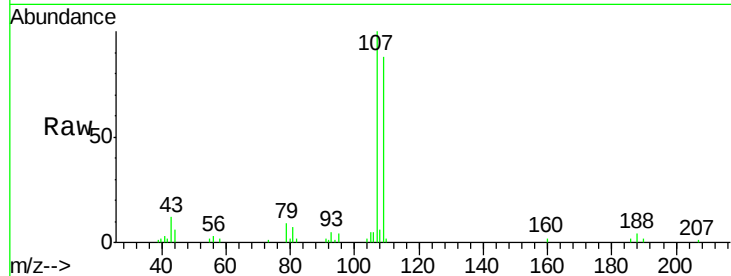
109 91.8 74.7 112.1

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 5.925 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

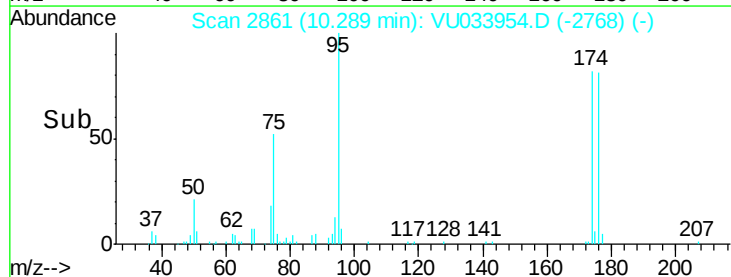
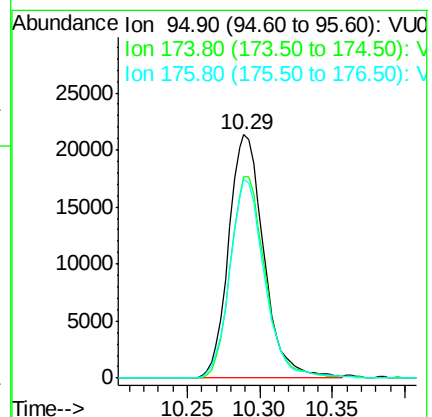
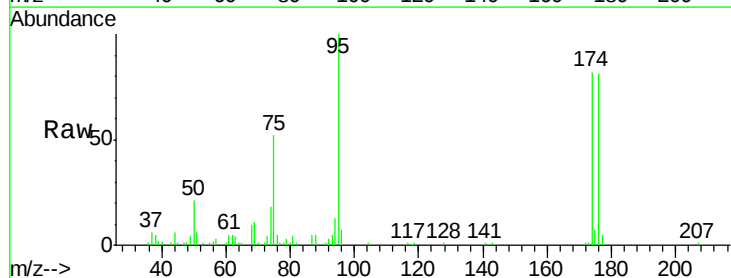
Tgt Ion: 95 Resp: 35827

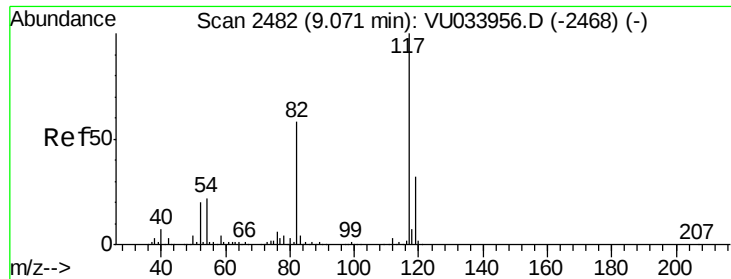
Ion Ratio Lower Upper

95 100

174 81.8 0.0 160.4

176 80.1 0.0 154.2





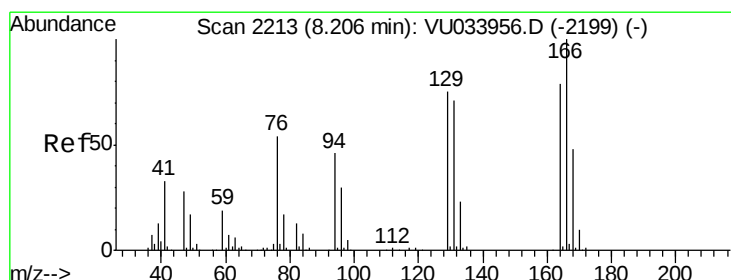
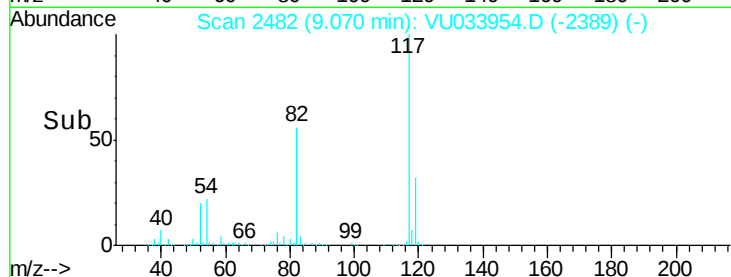
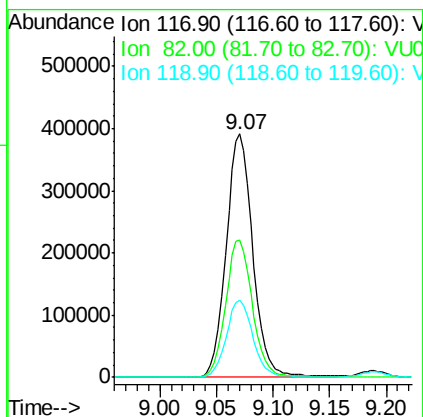
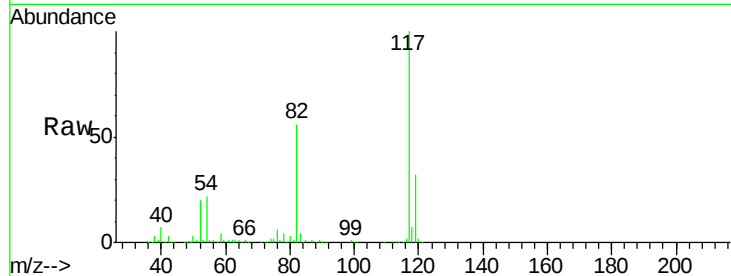
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.2	46.4	69.6
119	31.8	25.3	37.9

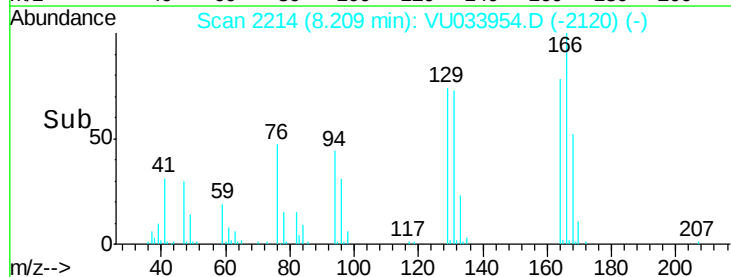
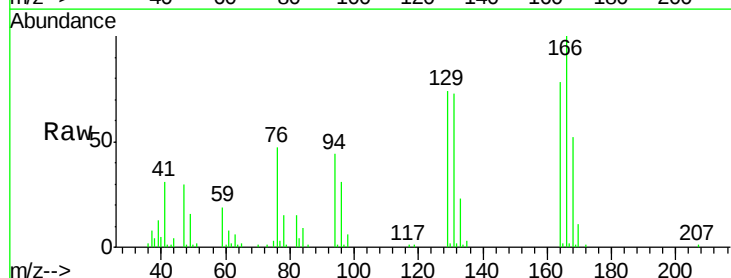
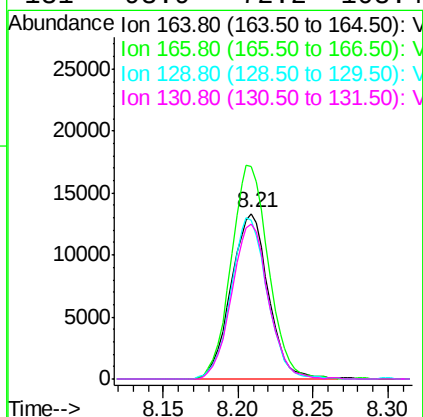
Manual Integrations
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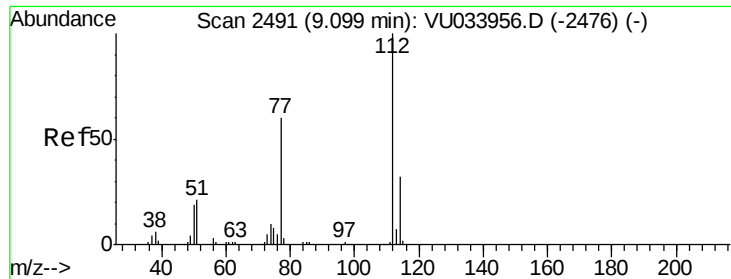
MMDadoda
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#64
Tetrachloroethene
Concen: 5.379 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.7	101.4	152.2
129	95.8	76.6	114.8
131	93.9	72.2	108.4





#65

Chlorobenzene

Concen: 4.656 ug/l

RT: 9.10 min Scan# 2491

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:112 Resp: 63115

Ion Ratio Lower Upper

112 100

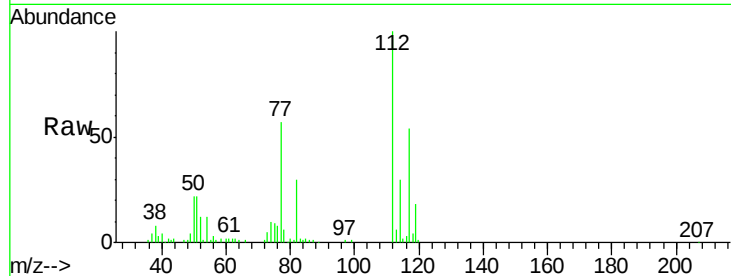
114 30.0 25.4 38.2

Manual Integrations

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

9.10

40000

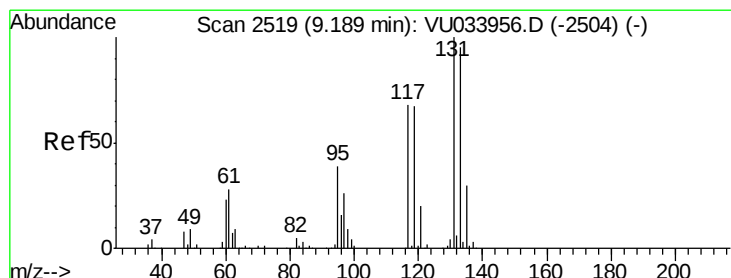
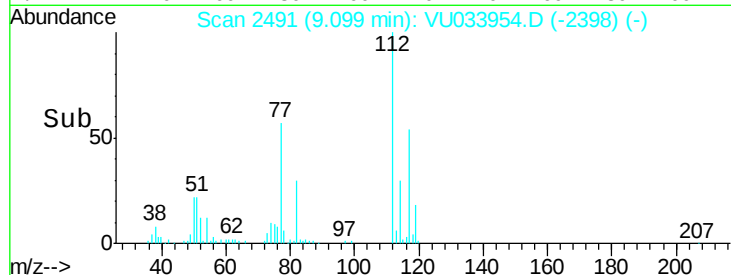
30000

20000

10000

0

Time--> 9.00 9.05 9.10 9.15 9.20



#66

1,1,1,2-Tetrachloroethane

Concen: 5.042 ug/l

RT: 9.19 min Scan# 2519

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

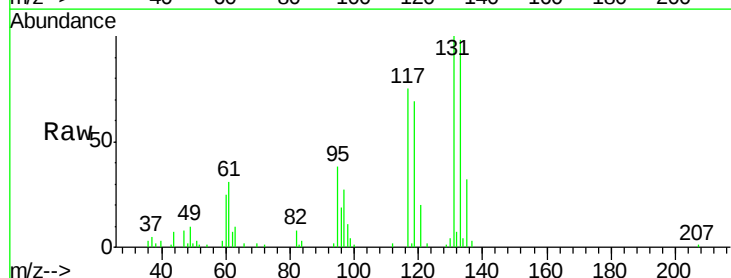
Tgt Ion:131 Resp: 22230

Ion Ratio Lower Upper

131 100

133 97.3 47.7 143.1

119 69.5 33.3 99.8



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

9.19

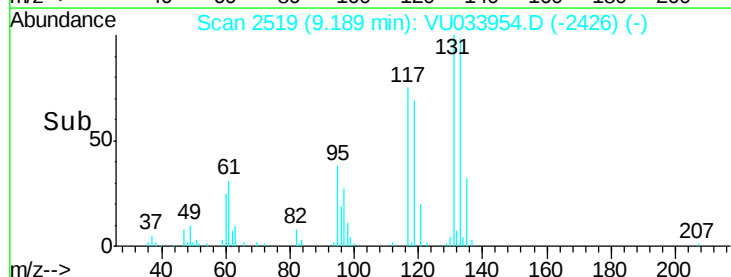
15000

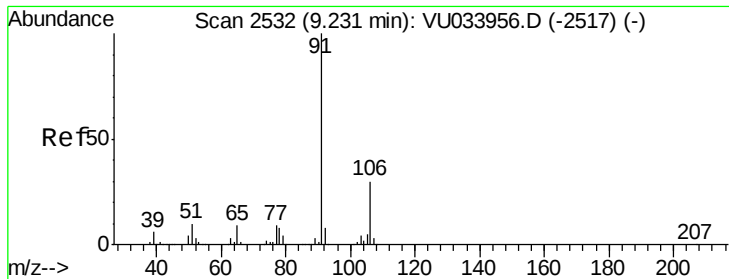
10000

5000

0

Time--> 9.15 9.20 9.25





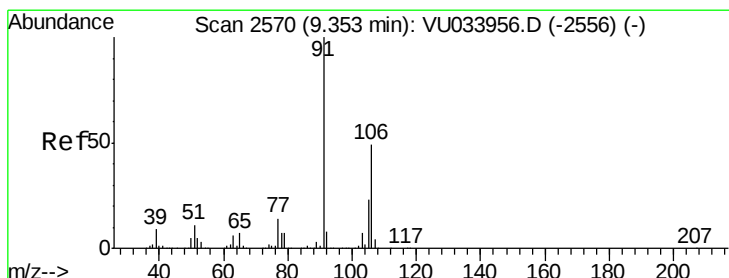
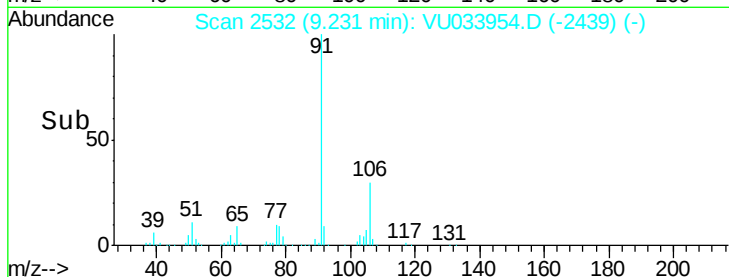
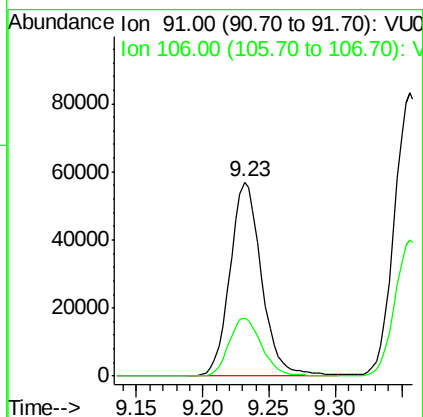
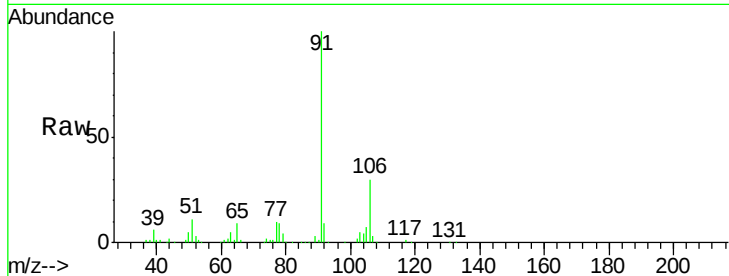
#67
Ethyl Benzene
Concen: 3.813 ug/l
RT: 9.23 min Scan# 2532
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.3	36.5

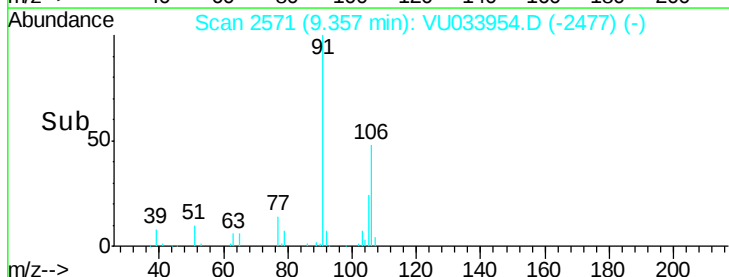
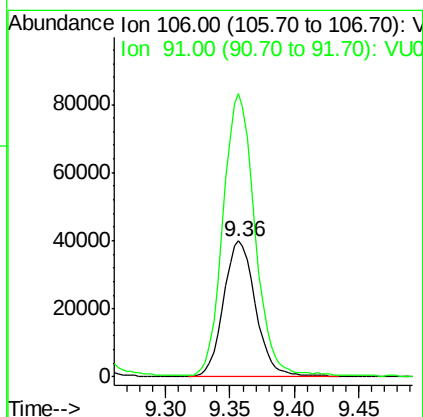
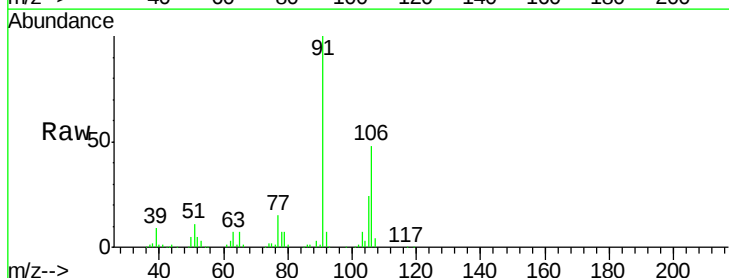
Manual Integrations
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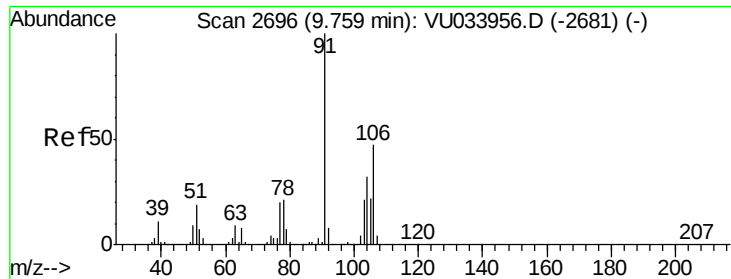
MMDadoda
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#68
m/p-Xylenes
Concen: 7.657 ug/l
RT: 9.36 min Scan# 2571
Delta R.T. 0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
106	100		
91	206.8	163.8	245.6





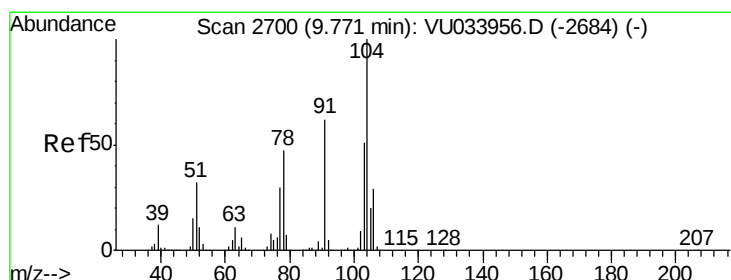
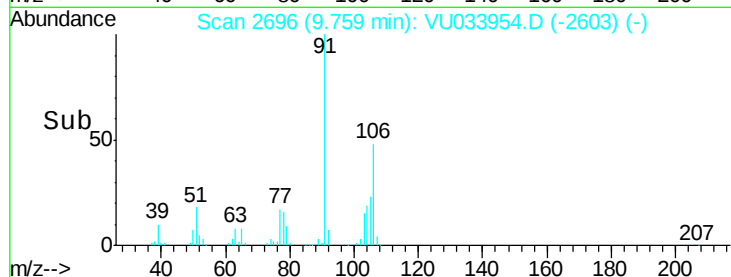
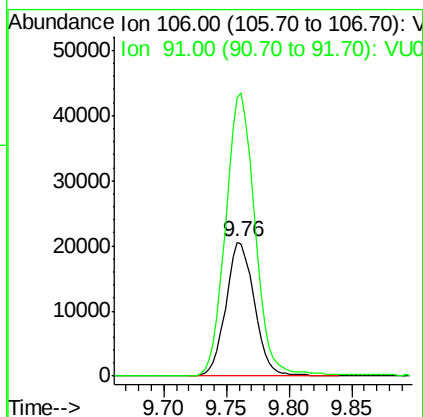
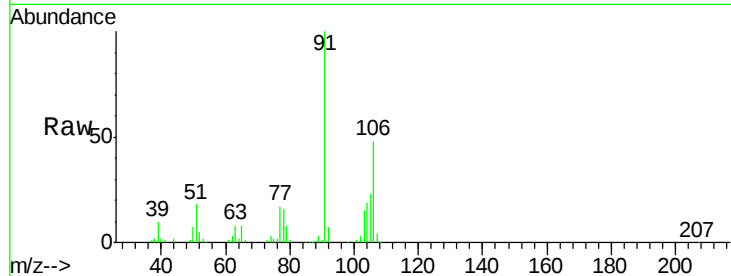
#69
o-Xylene
Concen: 3.732 ug/l
RT: 9.76 min Scan# 2696
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
106	100		
91	217.5	106.9	320.7

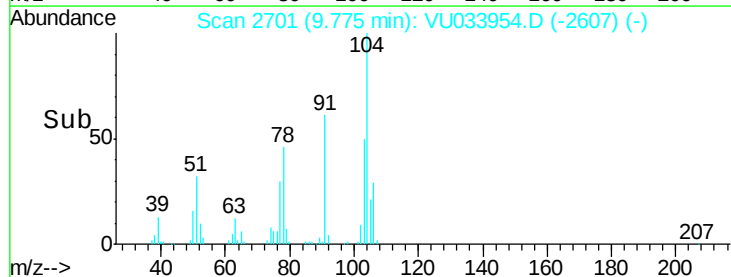
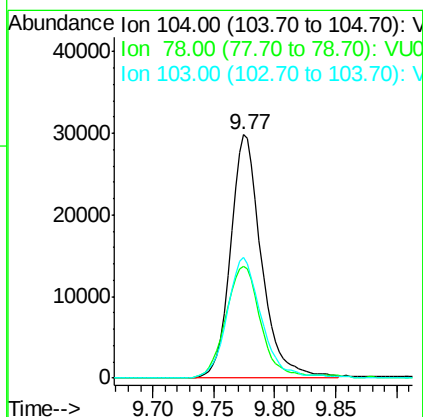
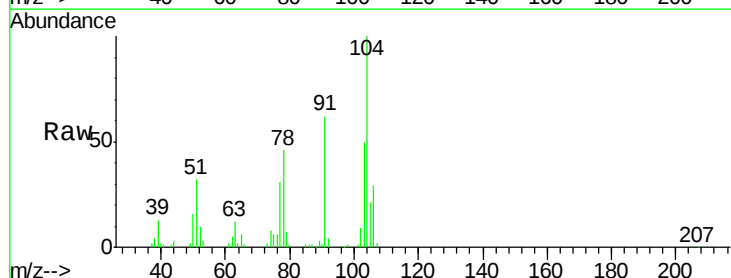
Manual Integrations
APPROVED

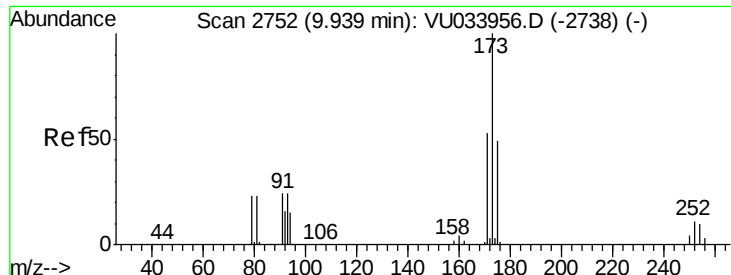
MMDadoda
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#70
Styrene
Concen: 3.607 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
104	100		
78	53.0	40.4	60.6
103	54.9	43.8	65.6





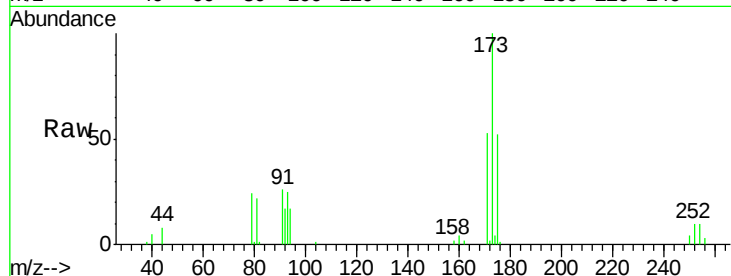
#71
Bromoform
Concen: 4.858 ug/l
RT: 9.94 min Scan# 2752
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

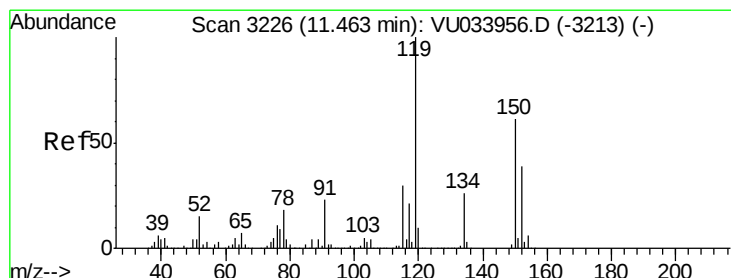
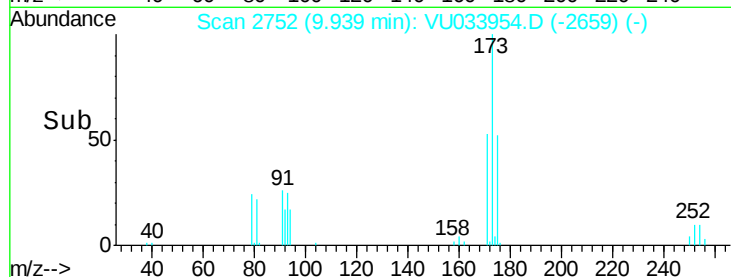
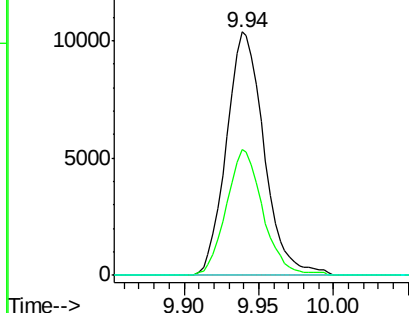
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.8	74.3
254	0.0	0.1	0.1#

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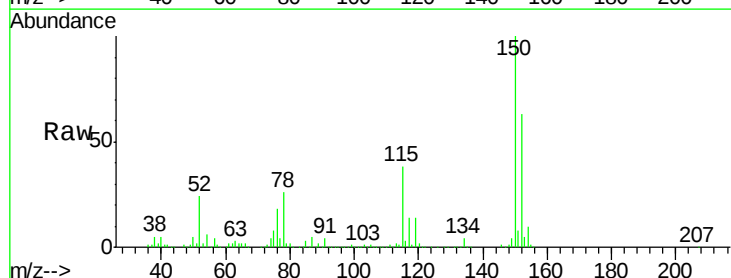


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

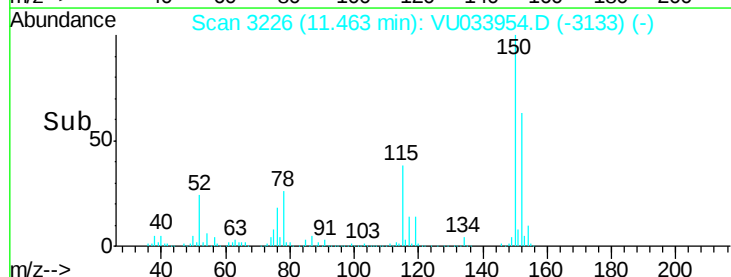
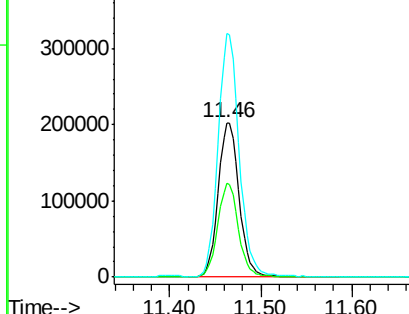


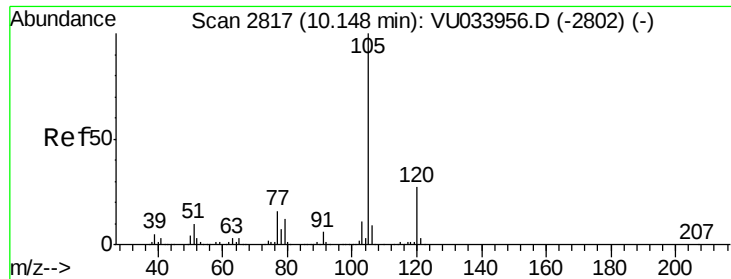
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.1	40.3	120.9
150	158.0	0.0	346.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 3.529 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 86382

Ion Ratio Lower Upper

105 100

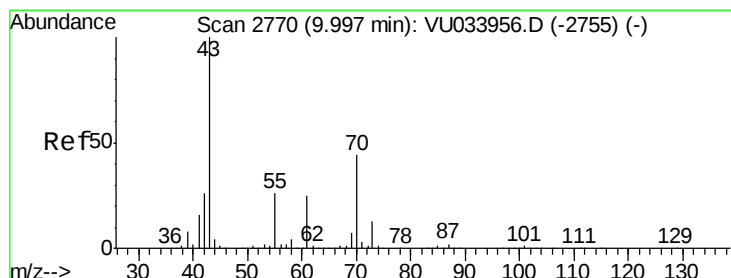
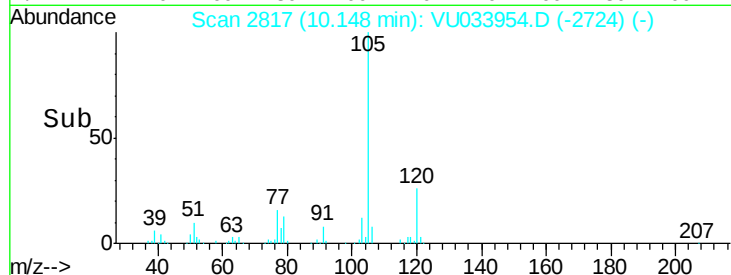
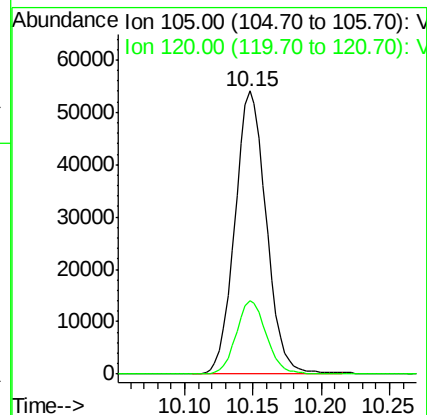
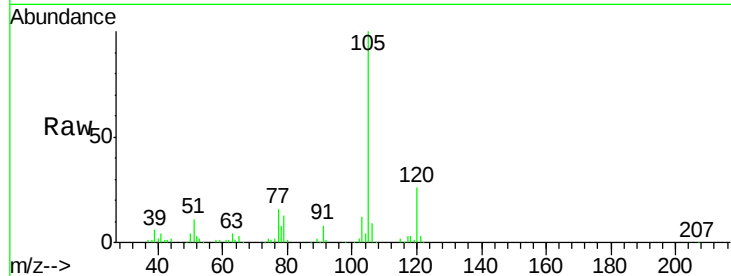
120 25.1 13.3 39.9

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#74

N-ethyl acetate

Concen: 2.327 ug/l

RT: 10.00 min Scan# 2771

Delta R.T. 0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Tgt Ion: 43 Resp: 31867

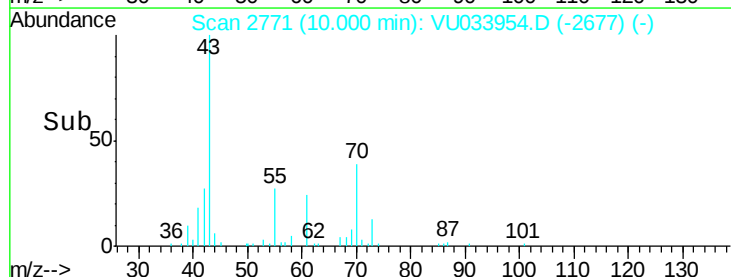
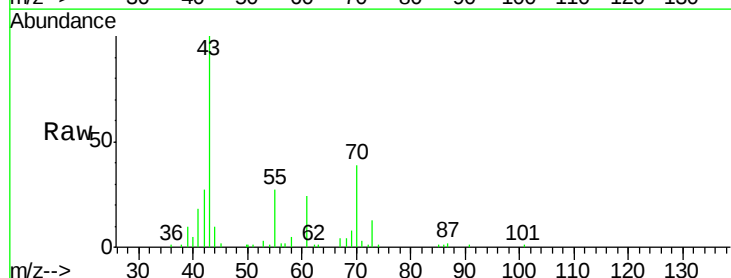
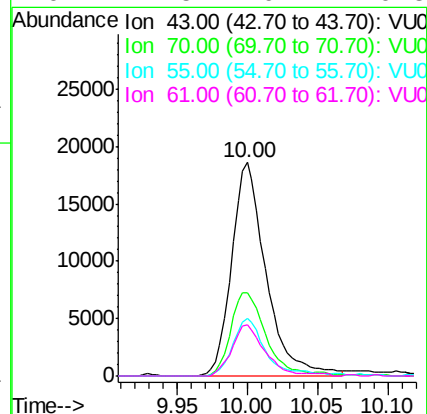
Ion Ratio Lower Upper

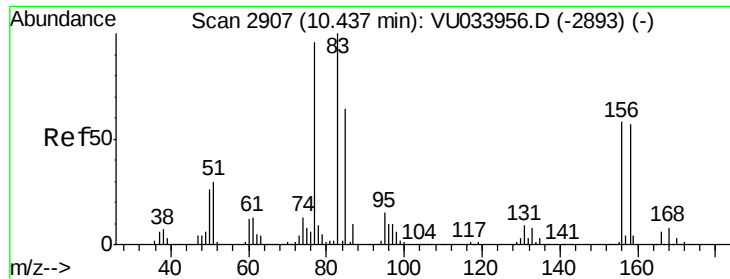
43 100

70 39.1 34.5 51.7

55 25.8 20.9 31.3

61 22.5 19.7 29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 4.348 ug/l

RT: 10.44 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

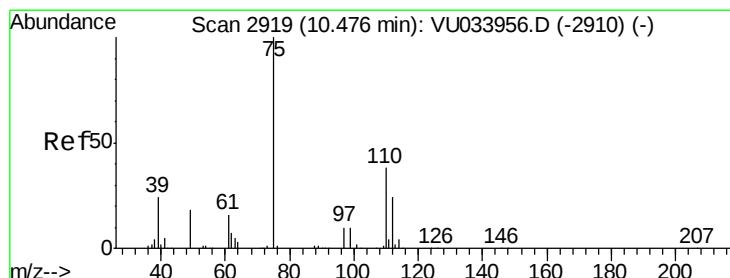
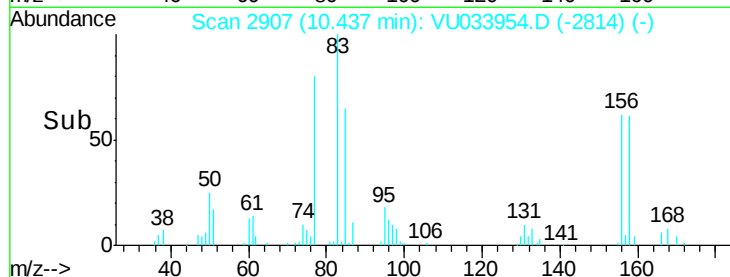
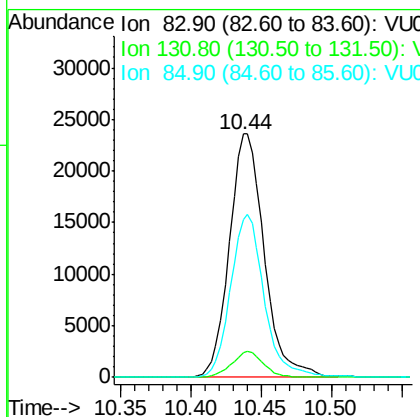
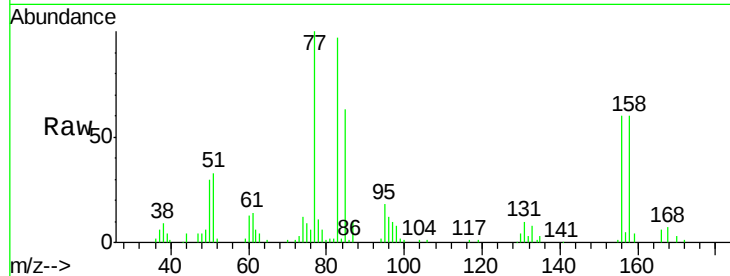
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	40860
Ion Ratio	Lower	Upper	
83	100		
131	9.5	4.6	13.8
85	64.4	32.4	97.0

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 4.530 ug/l m

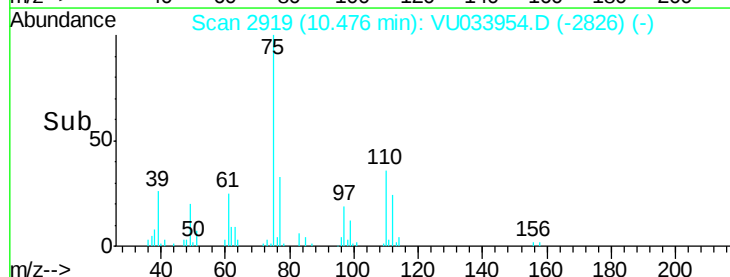
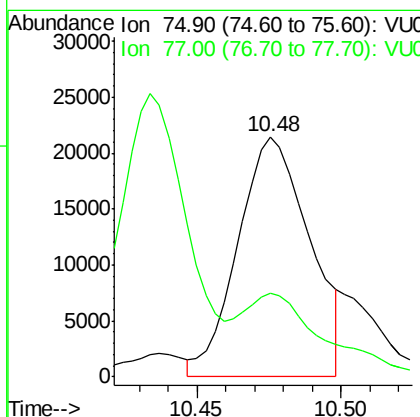
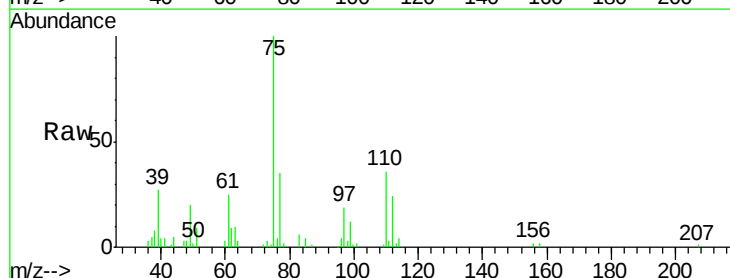
RT: 10.48 min Scan# 2919

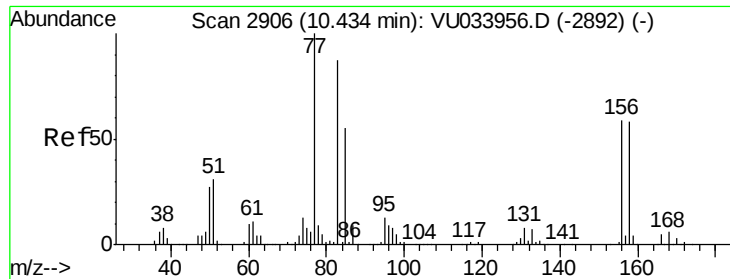
Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Tgt Ion:	75	Resp:	37013
Ion Ratio	Lower	Upper	
75	100		
77	39.3	20.1	60.3





#77

Bromobenzene

Concen: 4.426 ug/l

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

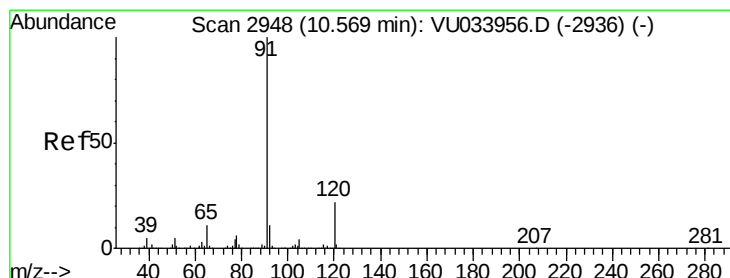
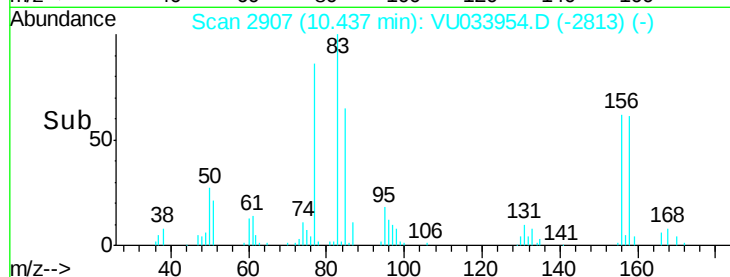
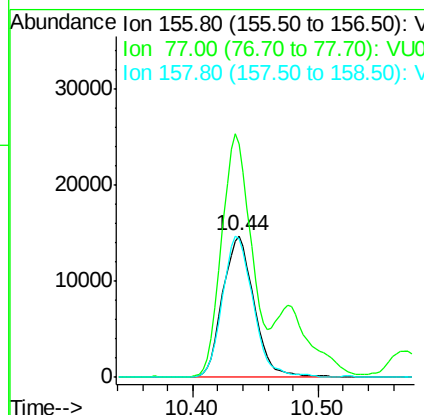
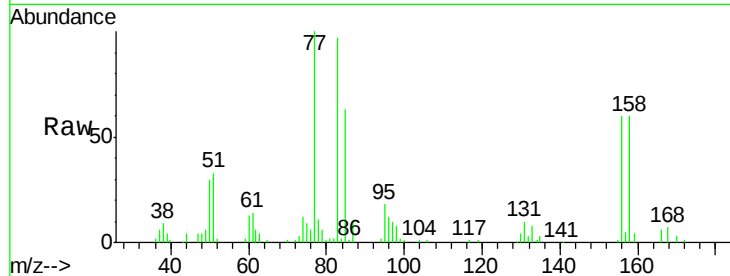
ClientSampleId :

VSTDIC005

Tot Ion:	156	Resp:	25591
Ion	Ratio	Lower	Upper
156	100		
77	162.3	85.3	255.8
158	97.6	48.9	146.7

Manual Integrations
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#78

n-propylbenzene

Concen: 3.419 ug/l

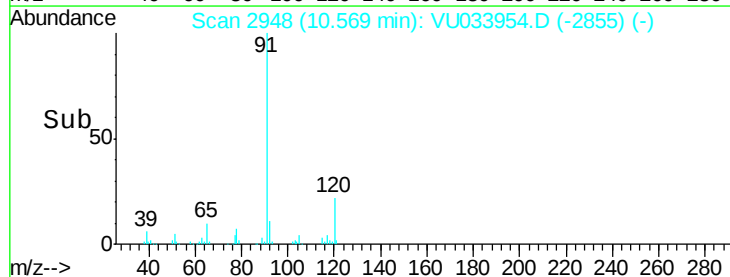
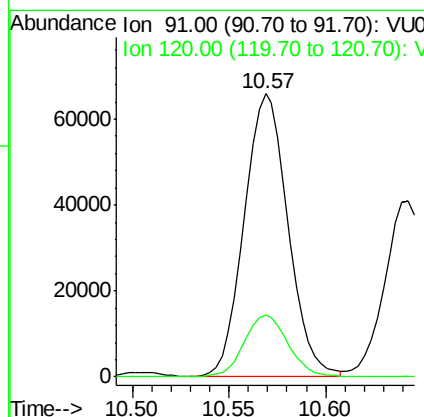
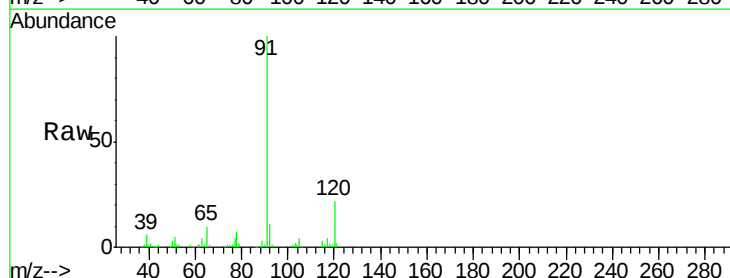
RT: 10.57 min Scan# 2948

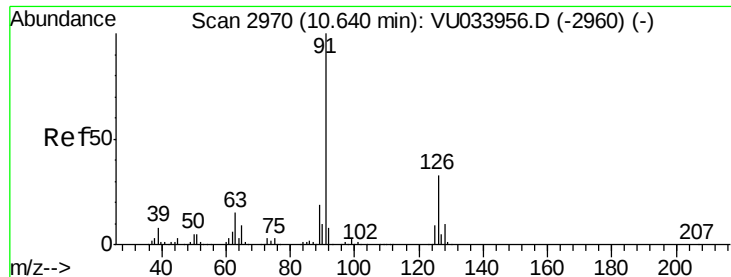
Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Tgt Ion:	91	Resp:	103508
Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.2	33.6





#79

2-Chlorotoluene

Concen: 3.712 ug/l

RT: 10.64 min Scan# 2971

Delta R.T. 0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 64749

Ion Ratio Lower Upper

91 100

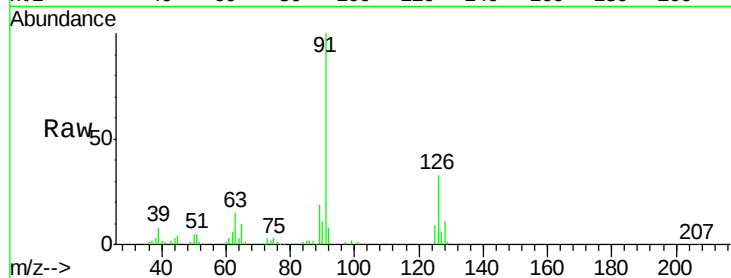
126 33.9 16.8 50.3

Manual Integrations

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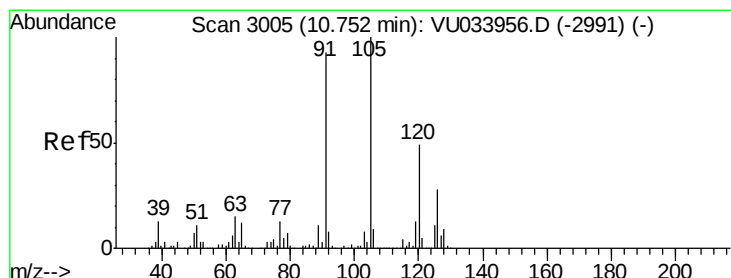
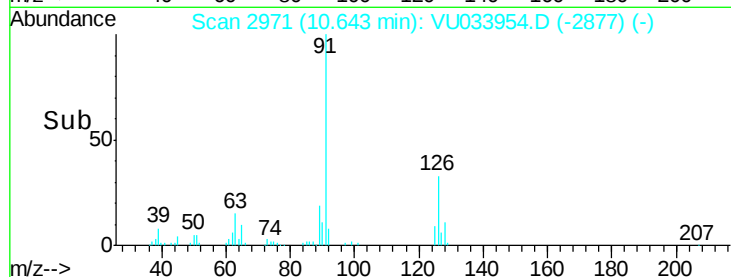
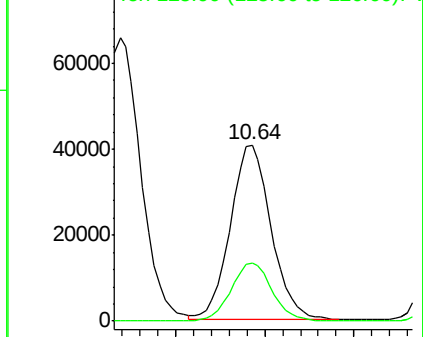
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VU033956.D (-2960) (-)

Ion 125.90 (125.60 to 126.60): VU033956.D (-2960) (-)



#80

1,3,5-Trimethylbenzene

Concen: 3.498 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU033954.D

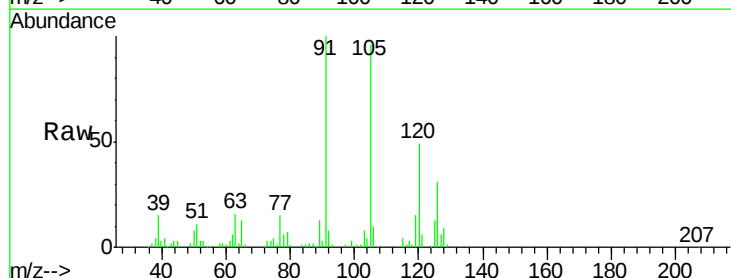
Acq: 26 Aug 2019 17:04

Tgt Ion: 105 Resp: 71090

Ion Ratio Lower Upper

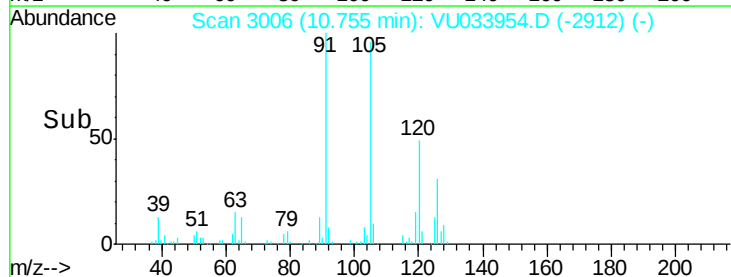
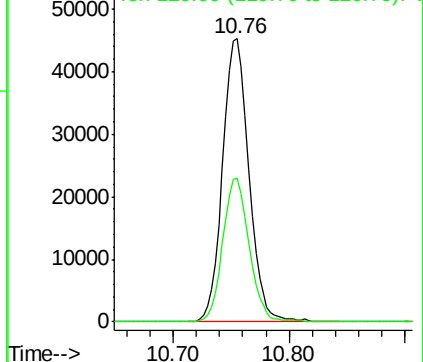
105 100

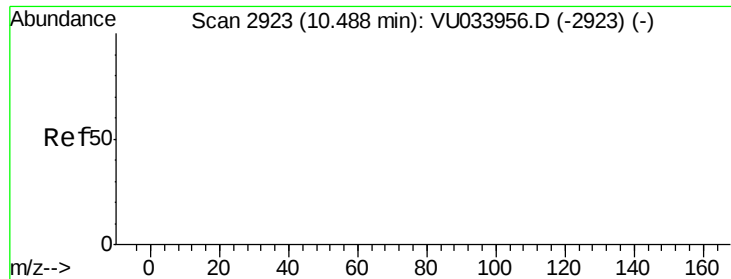
120 50.8 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): VU033956.D (-2991) (-)

Ion 120.00 (119.70 to 120.70): VU033956.D (-2991) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 2.705 ug/l m

RT: 10.49 min Scan# 2925

Delta R.T. 0.01 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

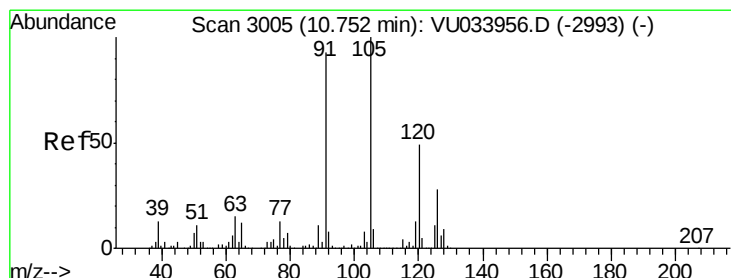
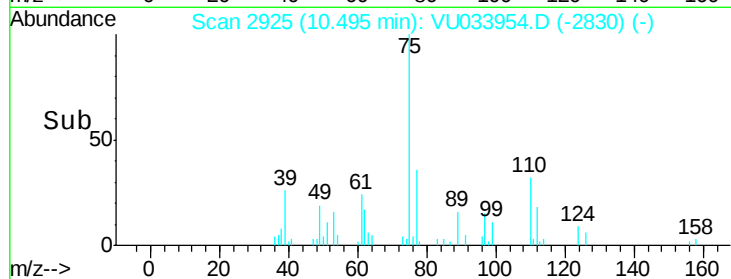
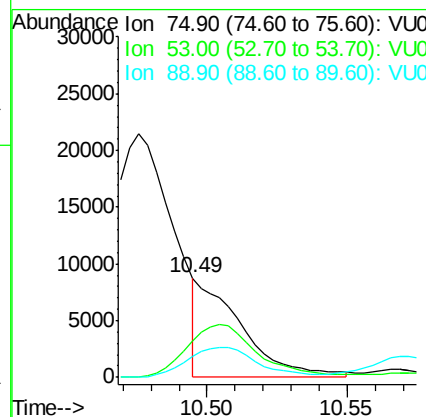
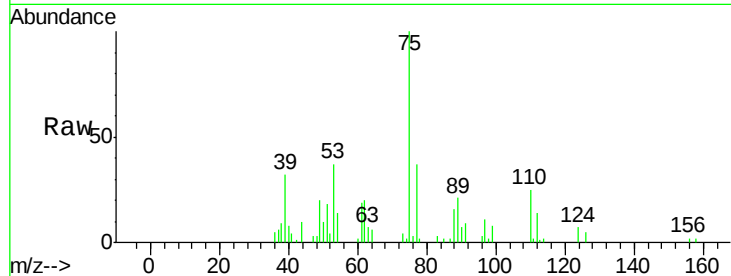
ClientSampleId :

VSTDIC005

Tot Ion:	75	Resp:	9632
Ion Ratio	Lower	Upper	
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 3.627 ug/l

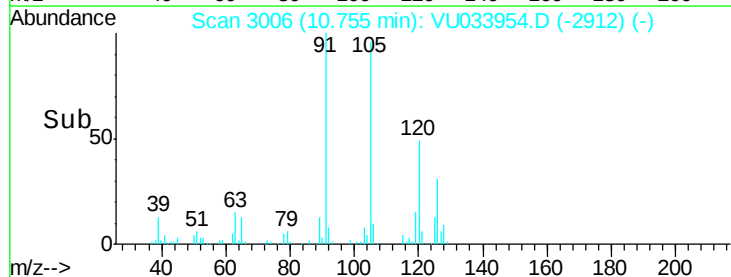
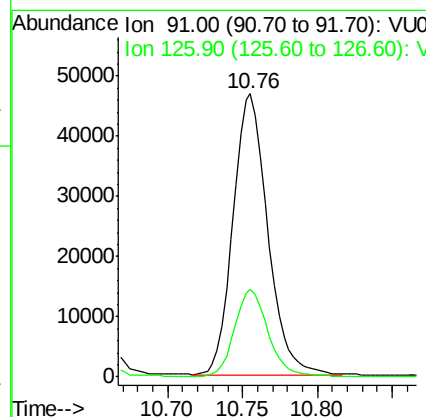
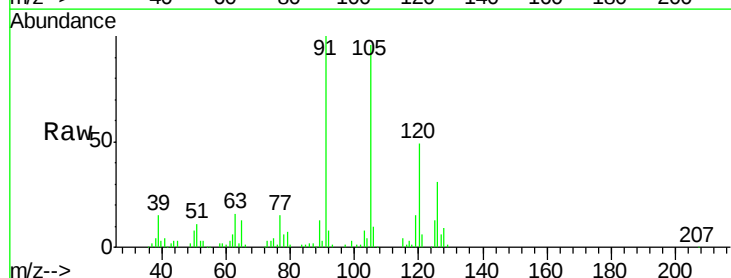
RT: 10.76 min Scan# 3006

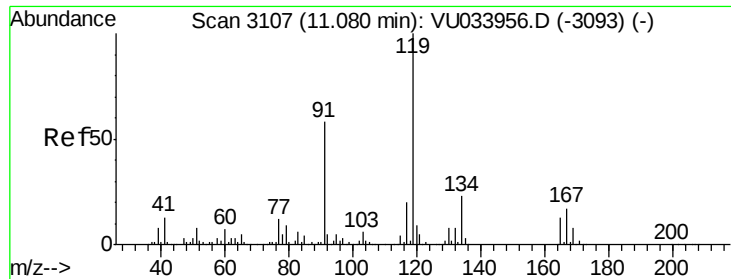
Delta R.T. 0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Tgt Ion:	91	Resp:	75190
Ion Ratio	Lower	Upper	
91	100		
126	30.6	14.8	44.3





#83

tert-Butylbenzene

Concen: 3.430 ug/l

RT: 11.08 min Scan# 3107

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

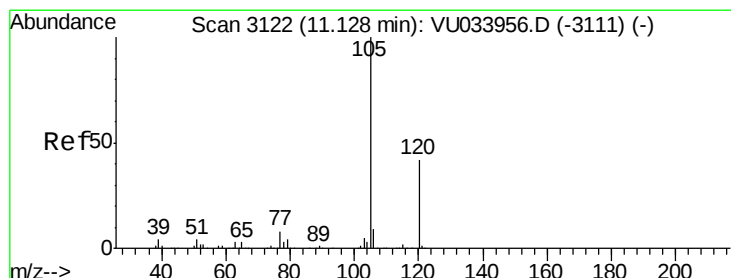
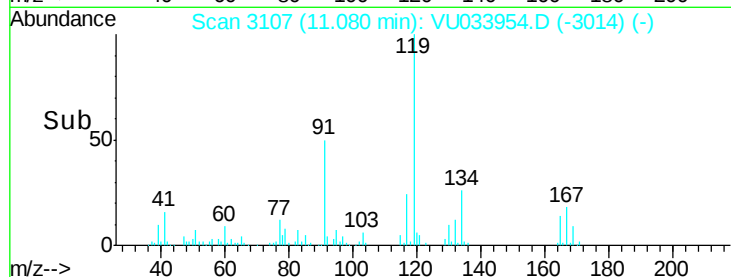
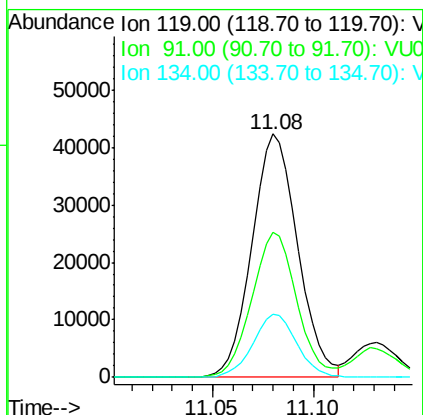
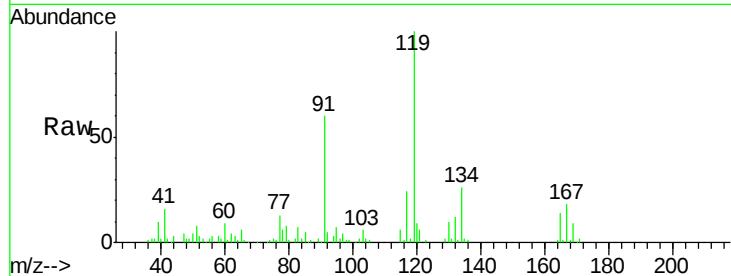
ClientSampleId :

VSTDIC005

Tot Ion:	119	Resp:	67034
Ion Ratio	Lower	Upper	
119	100		
91	58.2	28.6	85.8
134	25.0	11.7	35.0

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 3.301 ug/l

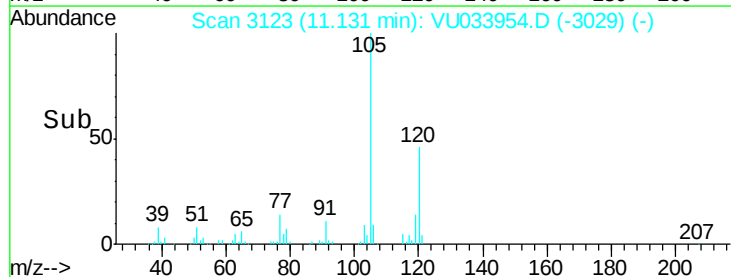
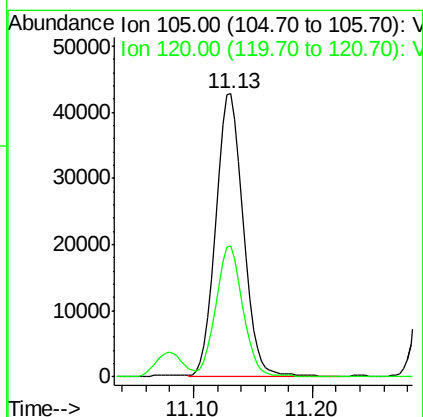
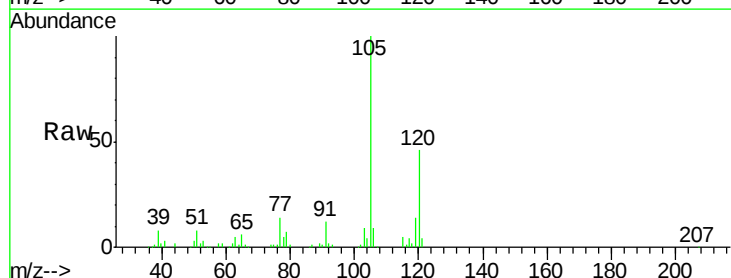
RT: 11.13 min Scan# 3123

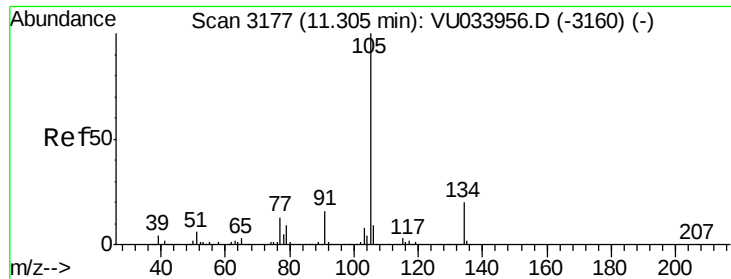
Delta R.T. 0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Tgt Ion:	105	Resp:	68995
Ion Ratio	Lower	Upper	
105	100		
120	45.4	23.0	69.0





#85

sec-Butylbenzene

Concen: 3.422 ug/l

RT: 11.31 min Scan# 3177

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 85454

Ion Ratio Lower Upper

105 100

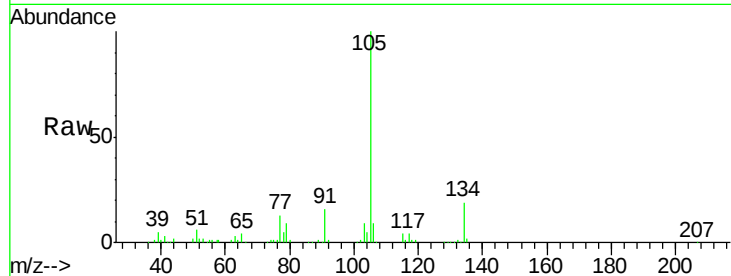
134 19.3 9.7 29.1

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

60000

50000

40000

30000

20000

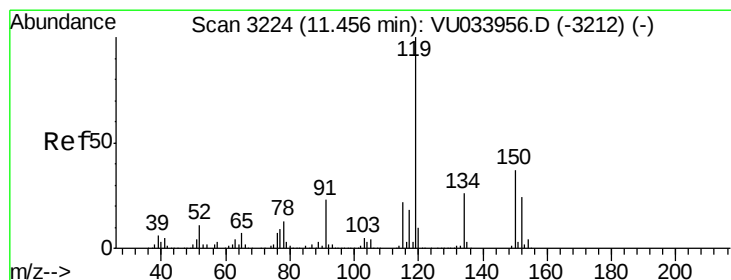
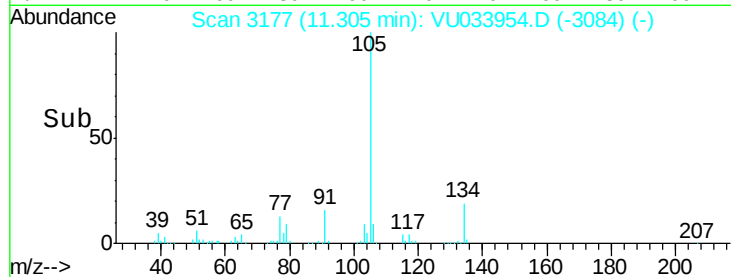
10000

0

11.30

11.40

Time-->



#86

p-Isopropyltoluene

Concen: 3.623 ug/l

RT: 11.46 min Scan# 3224

Delta R.T. -0.00 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

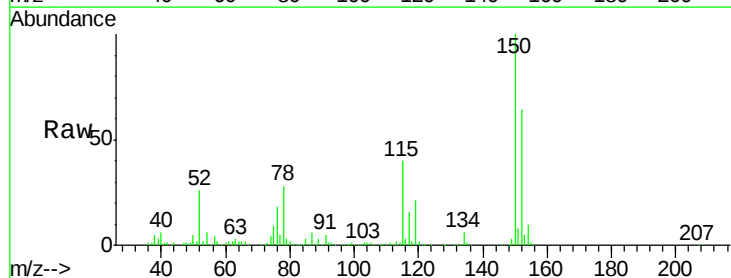
Tgt Ion:119 Resp: 77906

Ion Ratio Lower Upper

119 100

134 26.7 12.9 38.7

91 26.6 11.6 34.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU

60000

40000

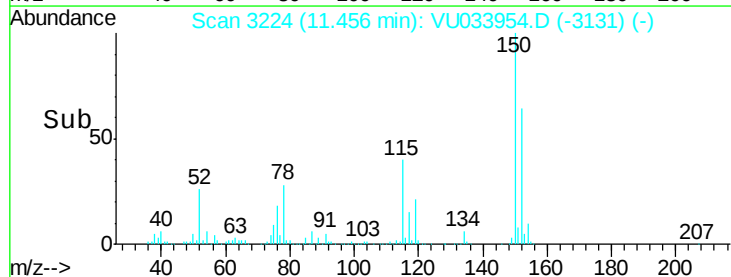
20000

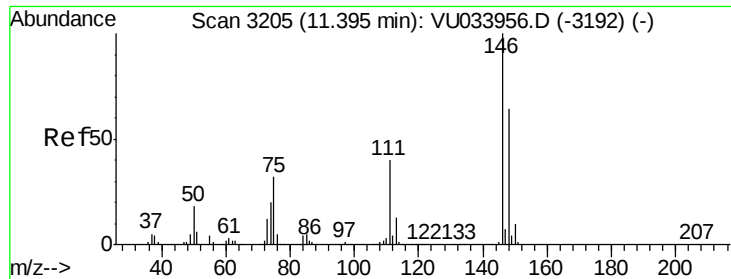
0

11.46

11.50

Time-->





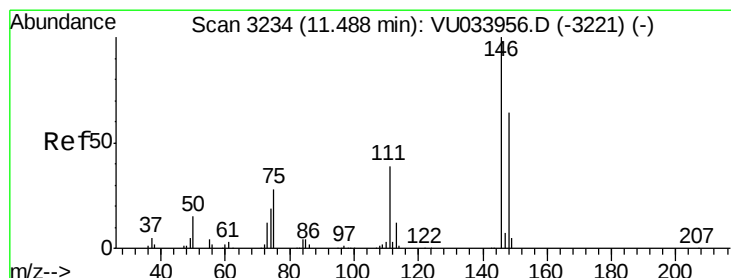
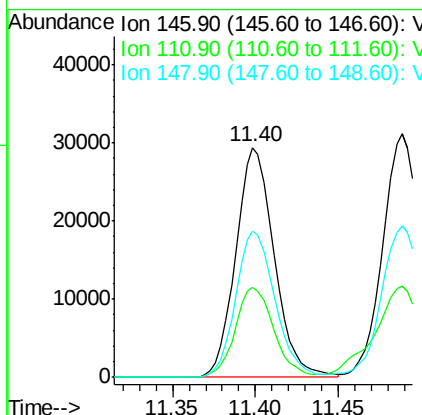
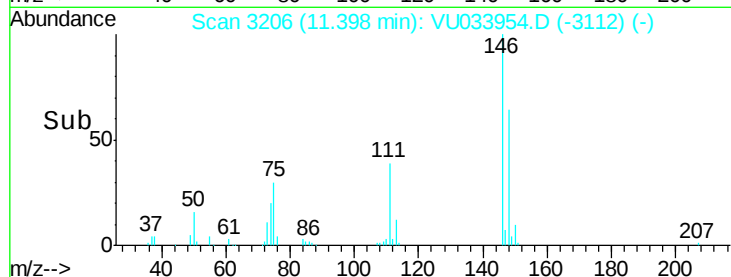
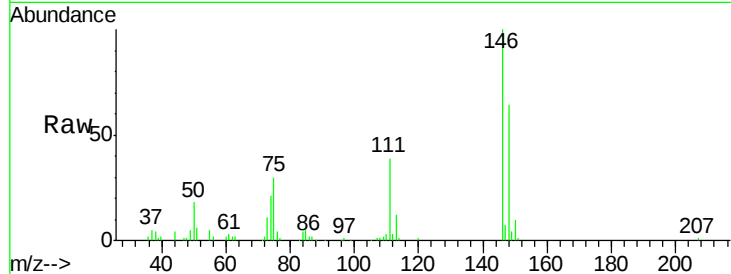
#87
 1,3-Dichlorobenzene
 Concen: 4.338 ug/l
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.1	60.2
148	64.8	31.8	95.4

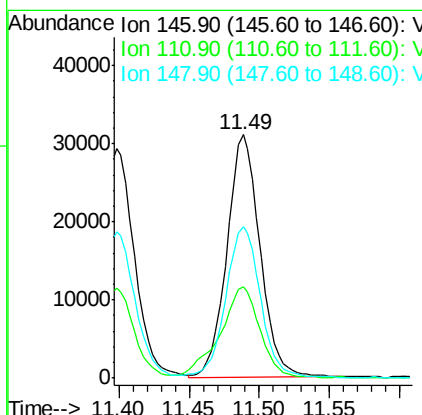
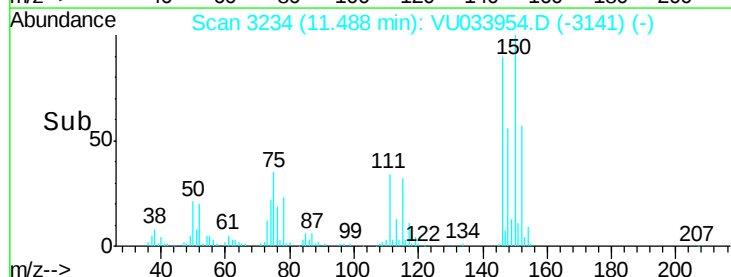
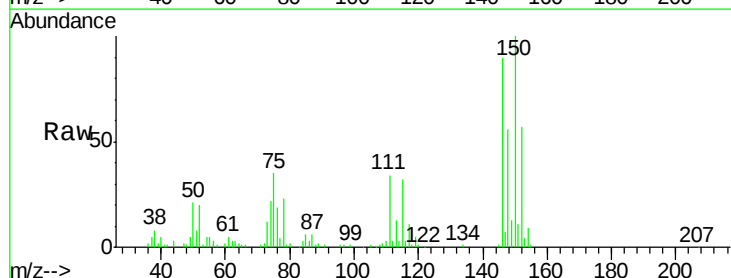
Manual Integrations
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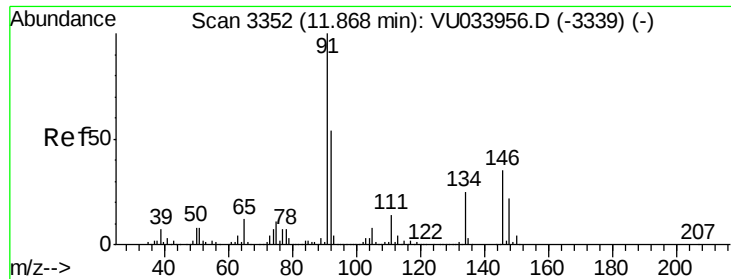
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#88
 1,4-Dichlorobenzene
 Concen: 4.491 ug/l
 RT: 11.49 min Scan# 3234
 Delta R.T. -0.00 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.4	19.8	59.4
148	64.6	32.2	96.6





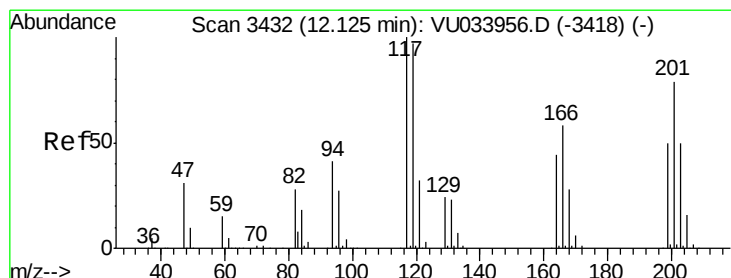
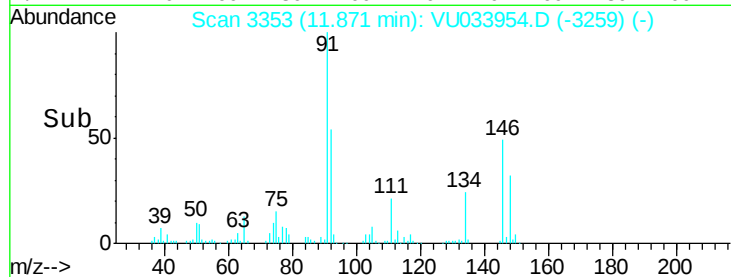
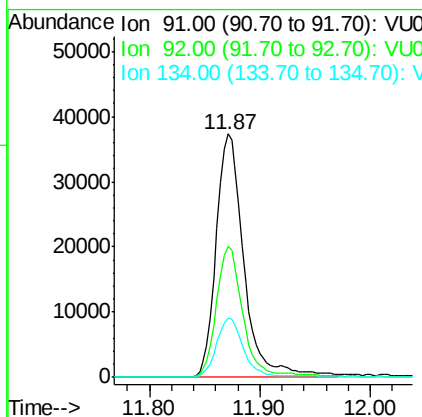
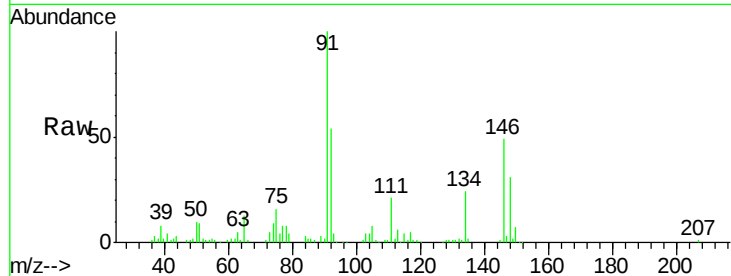
#89
n-Butylbenzene
Concen: 3.045 ug/l
RT: 11.87 min Scan# 3353
Delta R.T. 0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	49.9	26.9	80.6
134	23.2	12.6	37.6

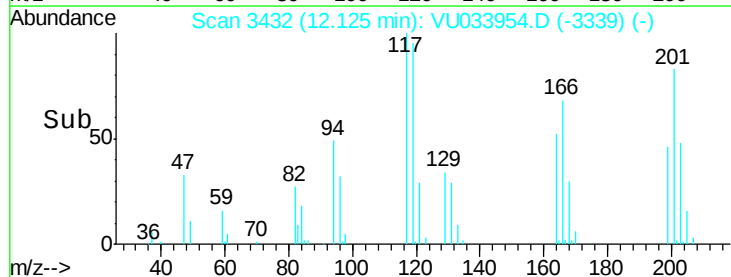
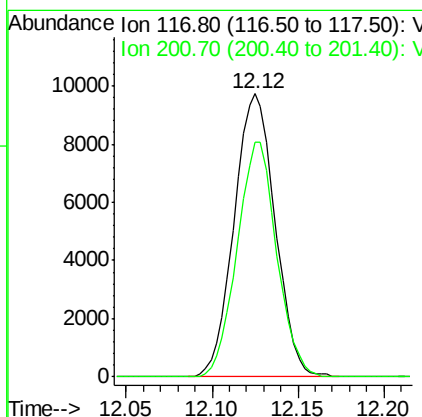
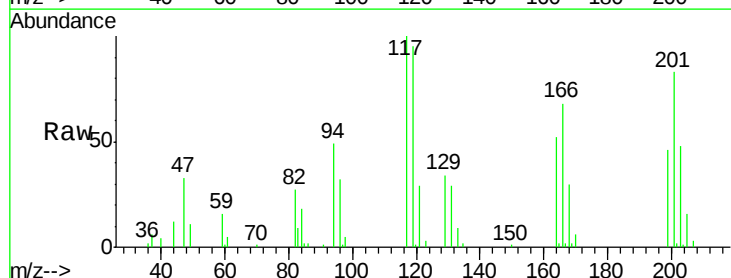
Manual Integrations
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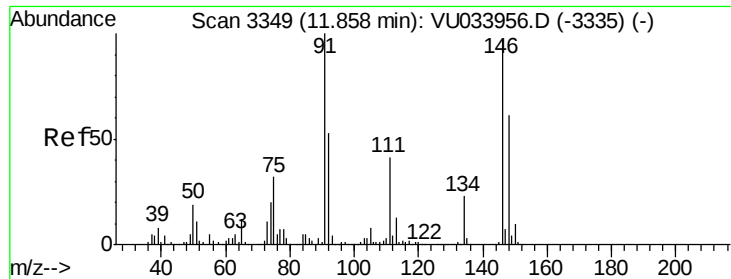
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#90
Hexachloroethane
Concen: 4.822 ug/l
RT: 12.12 min Scan# 3432
Delta R.T. -0.00 min
Lab File: VU033954.D
Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
117	100		
201	80.2	39.6	118.7





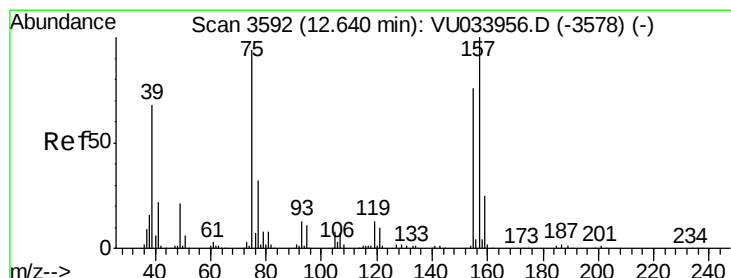
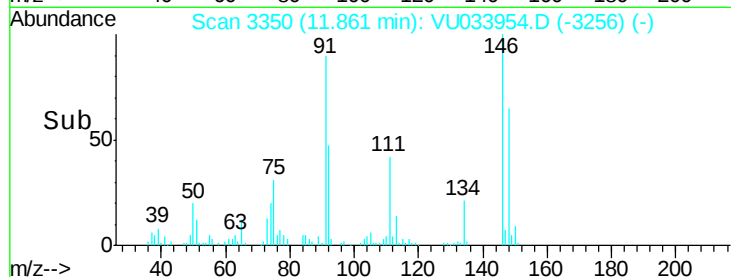
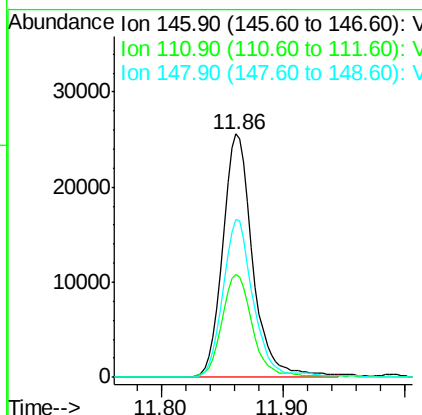
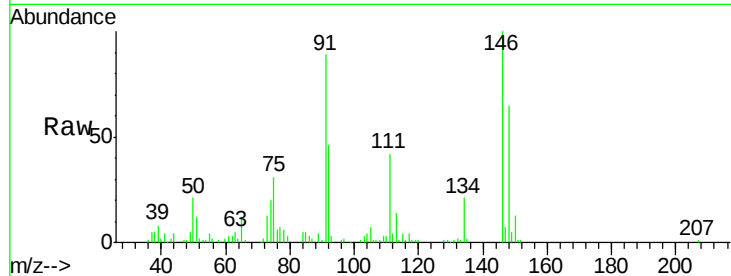
#91
 1,2-Dichlorobenzene
 Concen: 4.065 ug/l
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.1	63.1
148	65.9	31.7	95.1

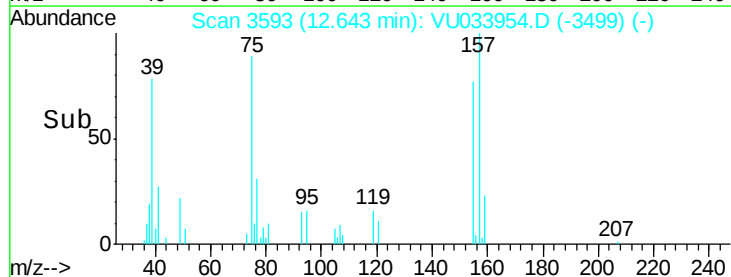
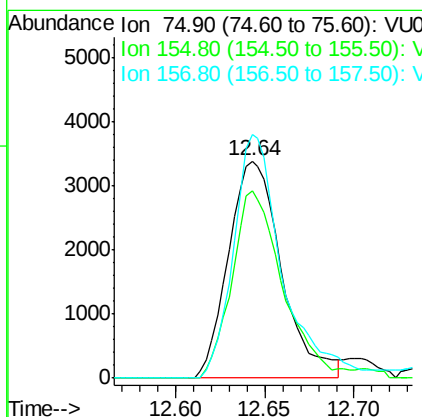
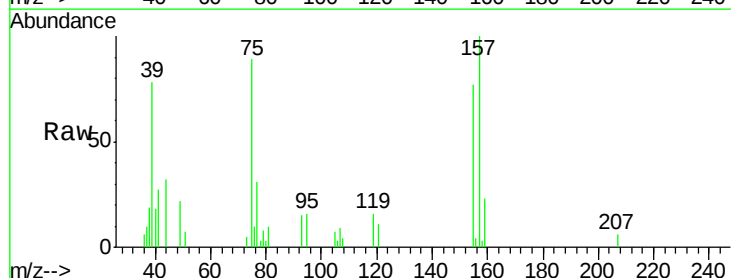
Manual Integrations
 APPROVED

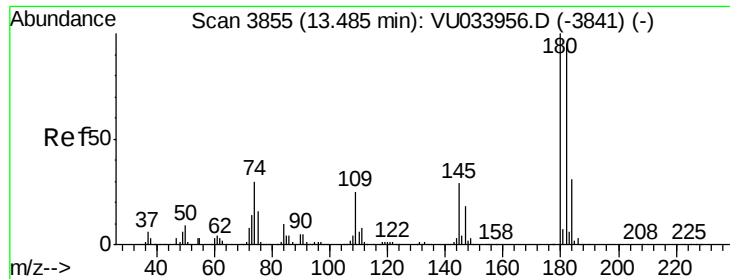
MMDadoda
 8/27/2019 12:16:52 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.447 ug/l
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.7	40.0	119.9
157	102.9	51.9	155.7





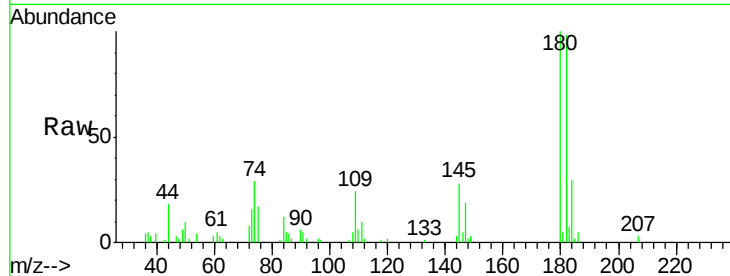
#93
 1,2,4-Trichlorobenzene
 Concen: 2.530 ug/l
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.01 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

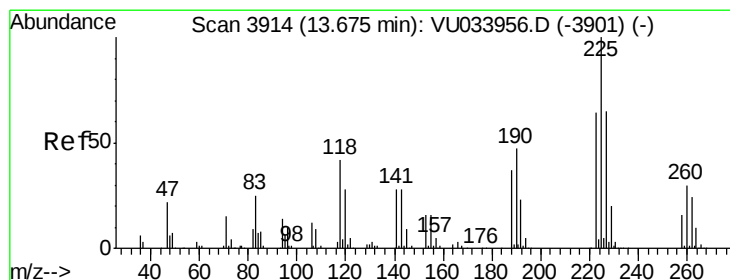
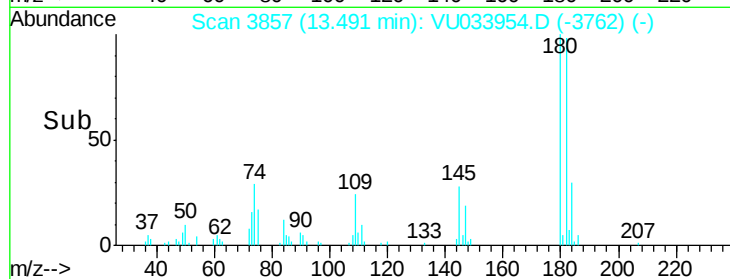
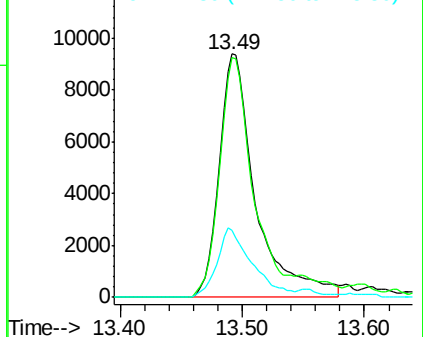
Tot Ion	Ratio	Lower	Upper
180	100		
182	90.4	47.4	142.3
145	27.4	14.2	42.8

Manual Integrations
 APPROVED

MMDadoda
 8/27/2019 12:16:52 PM

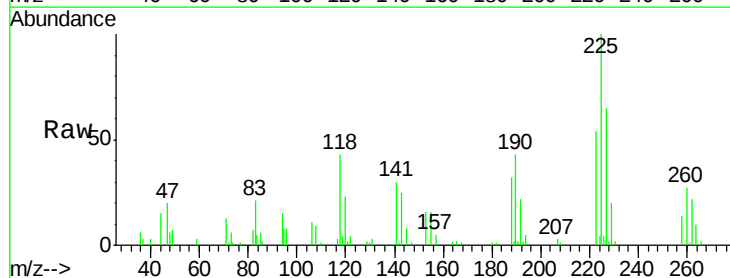


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

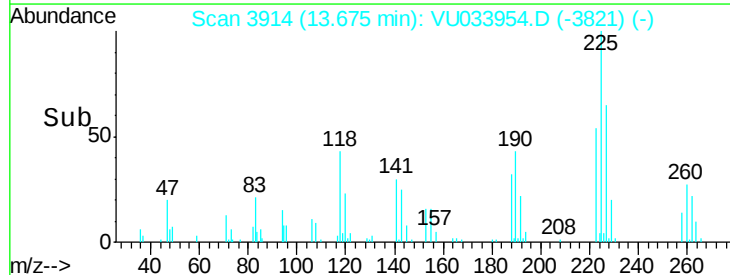
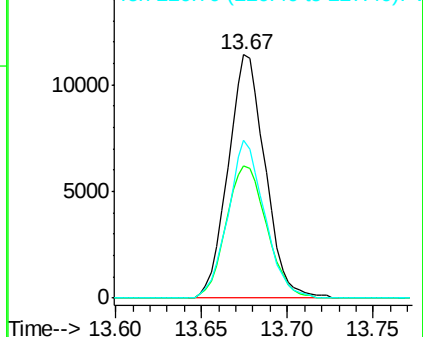


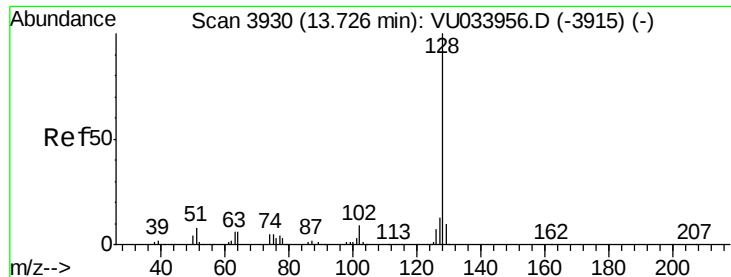
#94
 Hexachlorobutadiene
 Concen: 4.696 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. -0.00 min
 Lab File: VU033954.D
 Acq: 26 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.4	31.4	94.0
227	64.1	32.3	96.8



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 1.650 ug/l

RT: 13.73 min Scan# 3932

Delta R.T. 0.01 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Instrument :

MSVOA_U

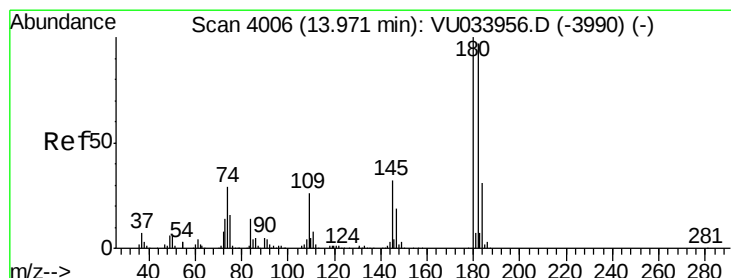
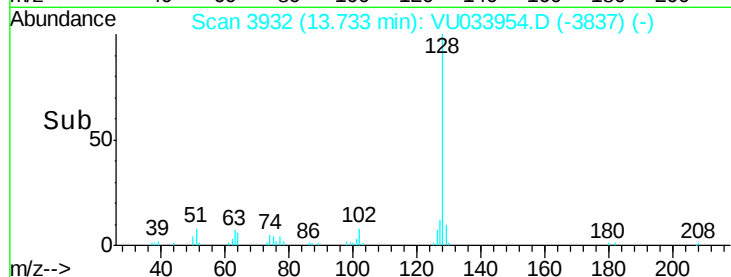
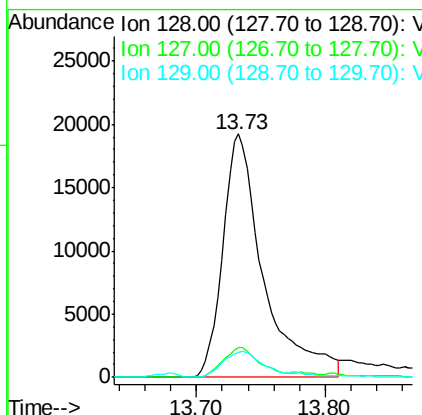
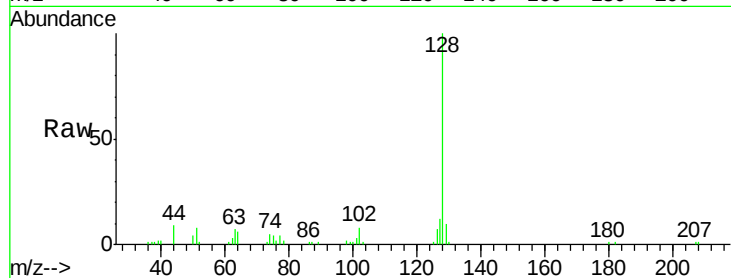
ClientSampleId :

VSTDIC005

Tot Ion:	128	Resp:	42099
Ion	Ratio	Lower	Upper
128	100		
127	11.2	10.1	15.1
129	10.4	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
8/27/2019 12:16:52 PM



#96

1,2,3-Trichlorobenzene

Concen: 2.579 ug/l

RT: 13.98 min Scan# 4008

Delta R.T. 0.01 min

Lab File: VU033954.D

Acq: 26 Aug 2019 17:04

Tgt Ion:	180	Resp:	20135
Ion	Ratio	Lower	Upper
180	100		
182	102.9	48.6	145.8
145	31.8	15.7	47.0

