

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU120618\
 Data File : VU028493.D
 Acq On : 06 Dec 2018 11:47
 Operator : MD/SY
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 12/7/2018 10:34:45 AM

Quant Time: Dec 07 00:20:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	106919	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	183542	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	169384	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	80123	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	8460	5.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.36%	
35) Dibromofluoromethane	4.88	113	5916	5.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.24%	
50) Toluene-d8	7.57	98	22608	4.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.90%	
62) 4-Bromofluorobenzene	10.31	95	8504	4.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	6903	4.817	ug/l	99
3) Chloromethane	1.33	50	13214	5.015	ug/l	99
4) Vinyl Chloride	1.40	62	9288	4.885	ug/l	99
5) Bromomethane	1.62	94	3680	4.805	ug/l	92
6) Chloroethane	1.69	64	5472	5.083	ug/l	95
7) Trichlorofluoromethane	1.88	101	9841	4.919	ug/l	97
8) Diethyl Ether	2.10	74	4549	4.860	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.29	101	6017	5.029	ug/l	99
10) Methyl Iodide	2.41	142	3938	4.195	ug/l	98
11) Tert butyl alcohol	2.83	59	9275	25.514	ug/l	100
12) 1,1-Dichloroethene	2.28	96	5801	4.873	ug/l	90
13) Acrolein	2.19	56	7251	25.021	ug/l	98
14) Allyl chloride	2.59	41	13432	4.770	ug/l	97
15) Acrylonitrile	2.94	53	24791	24.563	ug/l	98
16) Acetone	2.32	43	28743	26.996	ug/l	100
17) Carbon Disulfide	2.48	76	20565	4.795	ug/l	99
18) Methyl Acetate	2.62	43	13608	4.930	ug/l	98
19) Methyl tert-butyl Ether	3.00	73	23090	5.117	ug/l	99
20) Methylene Chloride	2.70	84	7486	4.769	ug/l	98
21) trans-1,2-Dichloroethene	2.98	96	6746	5.033	ug/l	96
22) Diisopropyl ether	3.57	45	27114	4.951	ug/l #	87
23) Vinyl Acetate	3.52	43	108505	24.020	ug/l	100
24) 1,1-Dichloroethane	3.45	63	14198	4.953	ug/l	99
25) 2-Butanone	4.26	43	37202	25.567	ug/l	100
26) 2,2-Dichloropropane	4.23	77	11626	5.118	ug/l	95
27) cis-1,2-Dichloroethene	4.22	96	7260	4.786	ug/l	95
28) Bromochloromethane	4.55	49	6709	5.148	ug/l #	97
29) Tetrahydrofuran	4.64	42	22901	24.506	ug/l	99
30) Chloroform	4.67	83	12939	5.179	ug/l	92
31) Cyclohexane	4.99	56	16784	4.991	ug/l #	85
32) 1,1,1-Trichloroethane	4.91	97	10223	4.927	ug/l	97
36) 1,1-Dichloropropene	5.14	75	9987	4.972	ug/l	97
37) Ethyl Acetate	4.39	43	11500	4.429	ug/l	97
38) Carbon Tetrachloride	5.13	117	7977	4.928	ug/l	98

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	12407	5.063	ug/l	99
40) Benzene	5.39	78	30332	5.128	ug/l	99
41) Methacrylonitrile	4.55	41	7326	5.152	ug/l #	91
42) 1,2-Dichloroethane	5.40	62	10639	5.138	ug/l	96
43) Isopropyl Acetate	5.55	43	20251	4.931	ug/l	97
44) Trichloroethene	6.19	130	6715	5.105	ug/l	96
45) 1,2-Dichloropropane	6.43	63	8564	5.148	ug/l	98
46) Dibromomethane	6.56	93	5004	5.070	ug/l	99
47) Bromodichloromethane	6.76	83	9527	4.960	ug/l	99
48) Methyl methacrylate	6.62	41	10089	4.940	ug/l	98
49) 1,4-Dioxane	6.62	88	3182	98.677	ug/l	97
51) 4-Methyl-2-Pentanone	7.46	43	65130	25.146	ug/l	98
52) Toluene	7.64	92	17108	4.914	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	11267	4.926	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	12358	4.980	ug/l	96
55) 1,1,2-Trichloroethane	8.07	97	7015	5.098	ug/l	98
56) Ethyl methacrylate	8.02	69	10966	4.653	ug/l	94
57) 1,3-Dichloropropane	8.24	76	12547	4.912	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.13	63	28539	23.644	ug/l	100
59) 2-Hexanone	8.36	43	50448	24.573	ug/l	99
60) Dibromochloromethane	8.48	129	6522	4.841	ug/l	98
61) 1,2-Dibromoethane	8.58	107	7278	5.043	ug/l	98
64) Tetrachloroethene	8.23	164	5716	5.059	ug/l	96
65) Chlorobenzene	9.12	112	18464	5.116	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	5909	5.127	ug/l	97
67) Ethyl Benzene	9.25	91	33134	4.994	ug/l	98
68) m/p-Xylenes	9.37	106	24522	10.157	ug/l	99
69) o-Xylene	9.78	106	11751	5.008	ug/l	98
70) Styrene	9.79	104	19191	4.942	ug/l	97
71) Bromoform	9.96	173	4672	4.765	ug/l #	99
73) Isopropylbenzene	10.16	105	31491	5.122	ug/l	100
74) N-amyl acetate	10.01	43	17377	4.900	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.46	83	12371	5.238	ug/l	95
76) 1,2,3-Trichloropropane	10.49	75	10327m	4.468	ug/l	
77) Bromobenzene	10.45	156	7391	5.140	ug/l	96
78) n-propylbenzene	10.59	91	38664	5.061	ug/l	97
79) 2-Chlorotoluene	10.66	91	23025	5.232	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	25859	5.081	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	3980m	3.482	ug/l	
82) 4-Chlorotoluene	10.77	91	26349	5.053	ug/l	97
83) tert-Butylbenzene	11.10	119	25001	5.097	ug/l	100
84) 1,2,4-Trimethylbenzene	11.15	105	26919	5.132	ug/l	97
85) sec-Butylbenzene	11.32	105	31591	5.013	ug/l	99
86) p-Isopropyltoluene	11.48	119	26946	5.034	ug/l	100
87) 1,3-Dichlorobenzene	11.42	146	13948	5.137	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	14105	5.021	ug/l	92
89) n-Butylbenzene	11.89	91	25799	4.762	ug/l	99
90) Hexachloroethane	12.14	117	4077	5.039	ug/l	94
91) 1,2-Dichlorobenzene	11.88	146	13673	5.034	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	12.66	75	2596	5.077	ug/l	96

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MSVOA_U
ClientSampleId :
VSTDICC005

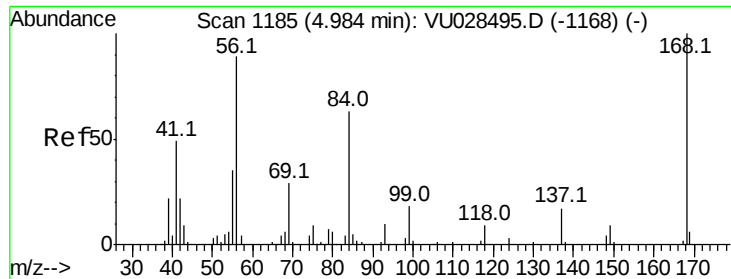
Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:34:45 AM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 07 00:10:10 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	8453	4.341	ug/l	97
94) Hexachlorobutadiene	13.69	225	4549	5.113	ug/l	97
95) Naphthalene	13.75	128	28887	4.433	ug/l	98
96) 1,2,3-Trichlorobenzene	13.99	180	8879	4.533	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 106919

Ion Ratio Lower Upper

168 100

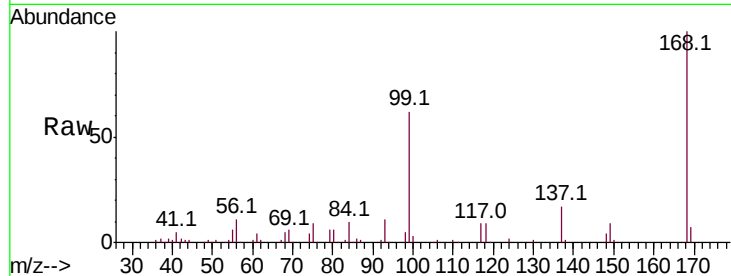
99 61.8 46.6 69.8

Manual Integrations

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12/7/2018 10:34:45 AM



Abundance Ion 167.90 (167.60 to 168.60): VU028493.D (-1092) (-)

Ion 98.90 (98.60 to 99.60): VU028493.D (-1092) (-)

4.98

50000

40000

30000

20000

10000

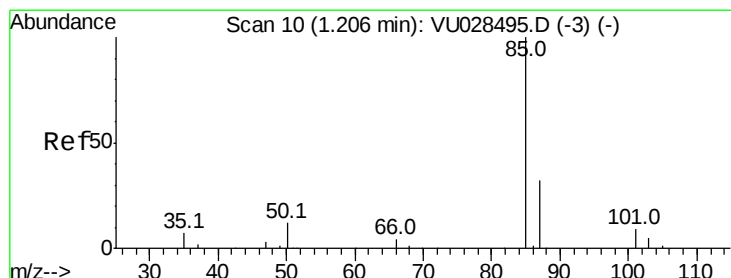
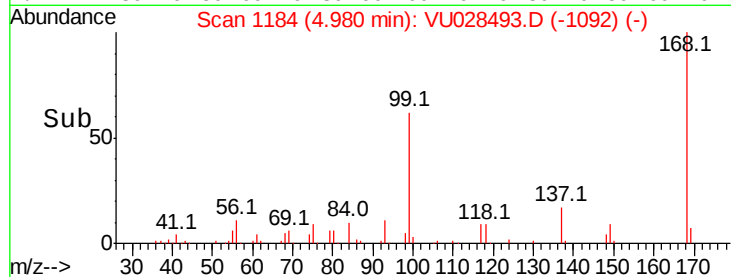
0

4.90

5.00

5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 4.817 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028493.D

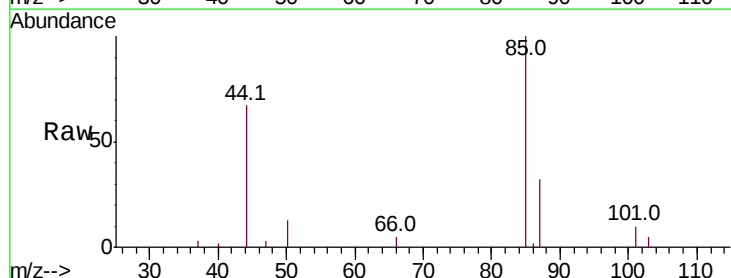
Acq: 06 Dec 2018 11:47

Tgt Ion: 85 Resp: 6903

Ion Ratio Lower Upper

85 100

87 32.0 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VU028493.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VU028493.D (-1) (-)

1.21

8000

6000

4000

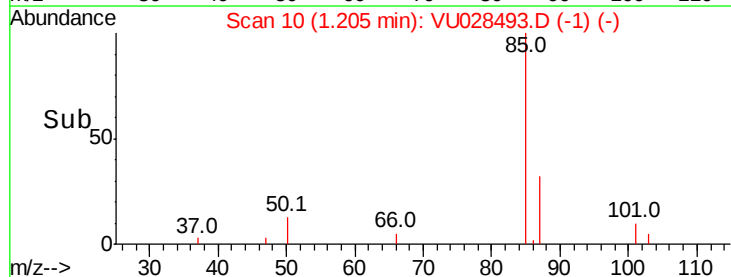
2000

0

1.20

1.25

Time-->





#3

Chloromethane

Concen: 5.015 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 13214

Ion Ratio Lower Upper

50 100

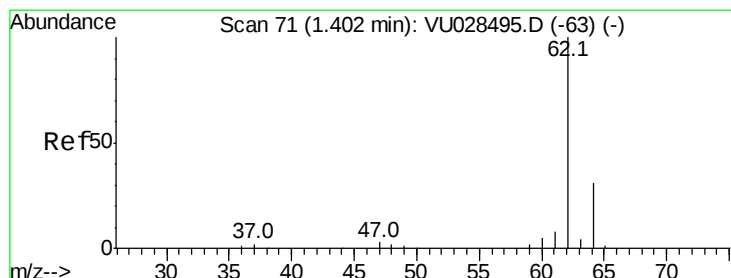
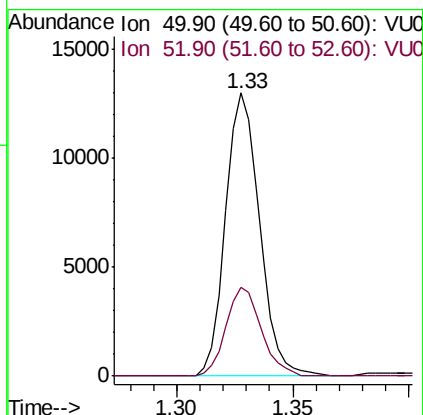
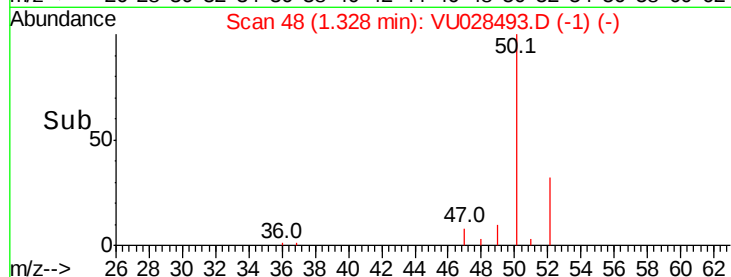
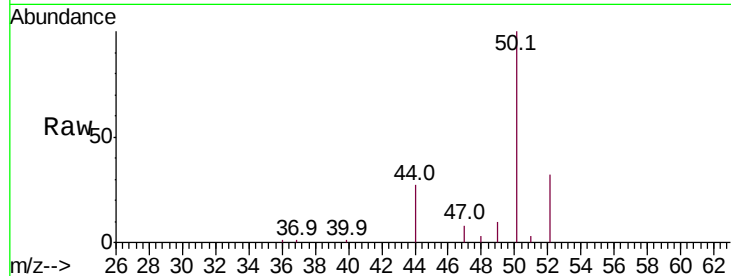
52 31.5 25.5 38.3

Manual Integrations

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12/7/2018 10:34:45 AM



#4

Vinyl Chloride

Concen: 4.885 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028493.D

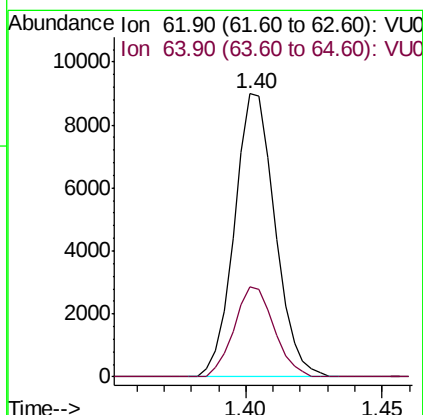
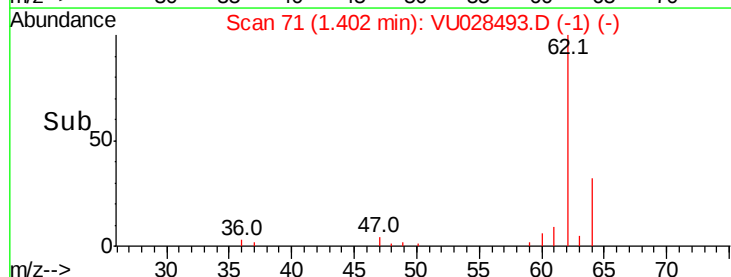
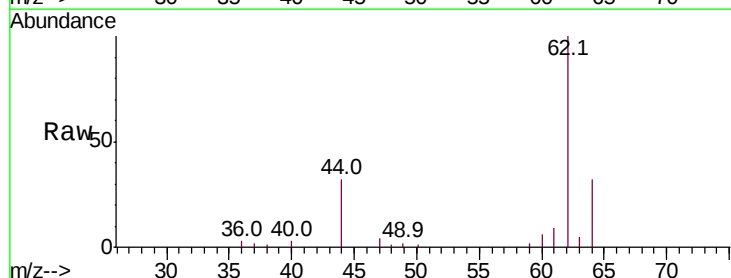
Acq: 06 Dec 2018 11:47

Tgt Ion: 62 Resp: 9288

Ion Ratio Lower Upper

62 100

64 32.0 25.1 37.7





#5

Bromomethane

Concen: 4.805 ug/l

RT: 1.62 min Scan# 138

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 3680

Ion Ratio Lower Upper

94 100

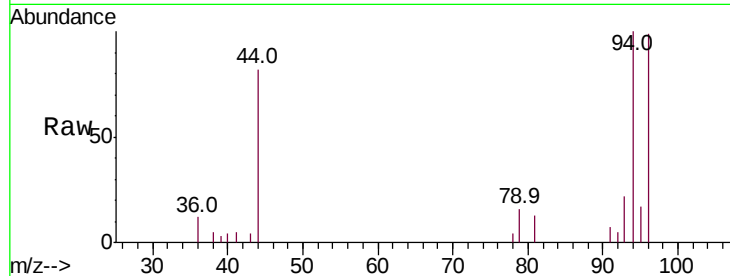
96 99.5 73.2 109.8

Manual Integrations

APPROVED

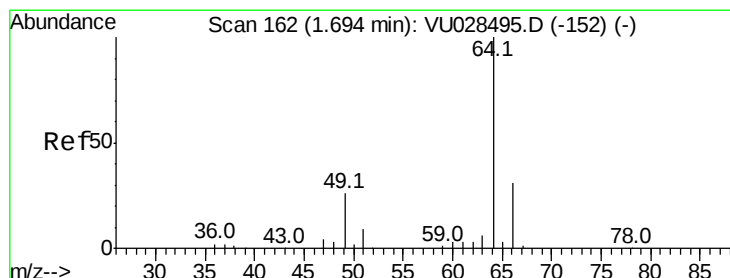
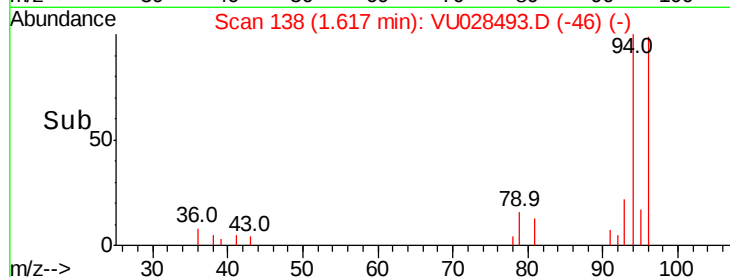
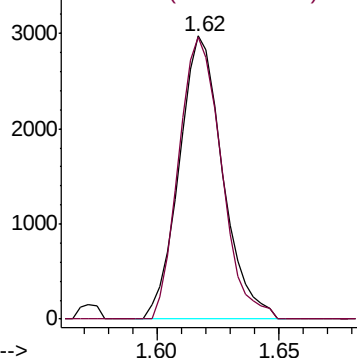
MMDadoda

12/7/2018 10:34:45 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 5.083 ug/l

RT: 1.69 min Scan# 162

Delta R.T. -0.00 min

Lab File: VU028493.D

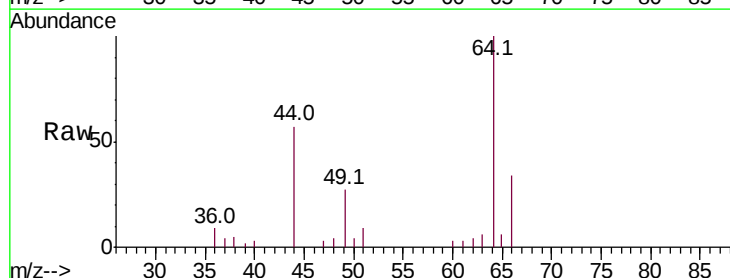
Acq: 06 Dec 2018 11:47

Tgt Ion: 64 Resp: 5472

Ion Ratio Lower Upper

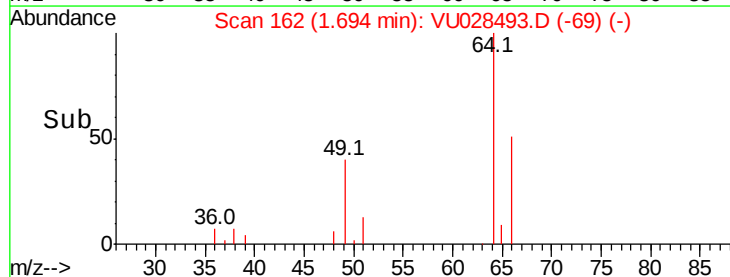
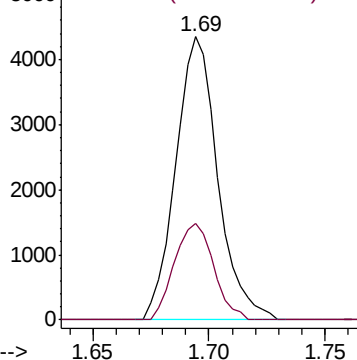
64 100

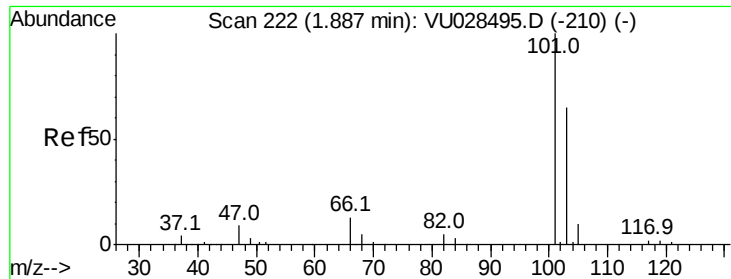
66 33.9 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

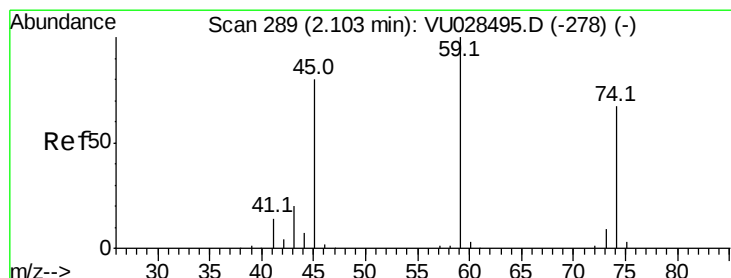
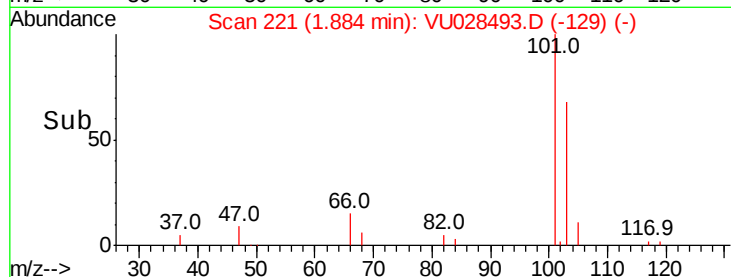
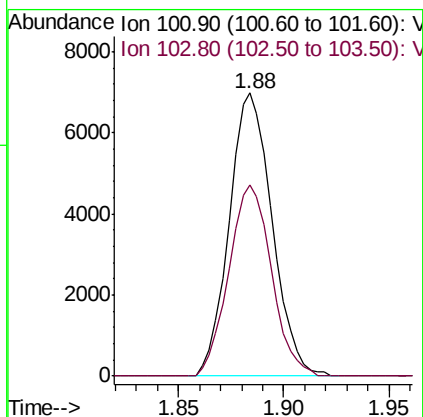
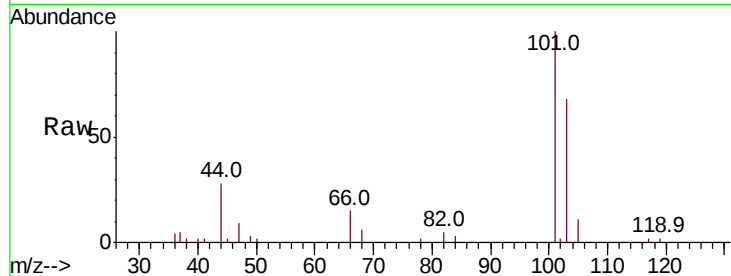
Trichlorofluoromethane
Concen: 4.919 ug/l
RT: 1.88 min Scan# 221
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.7	52.3	78.5

Manual Integrations
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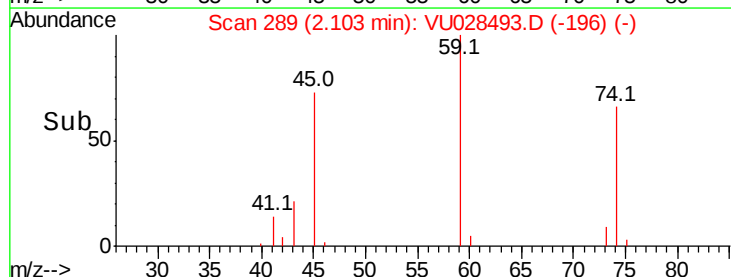
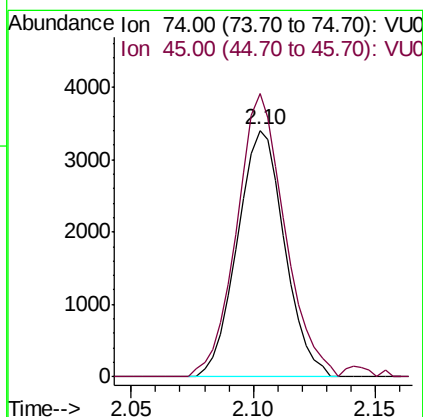
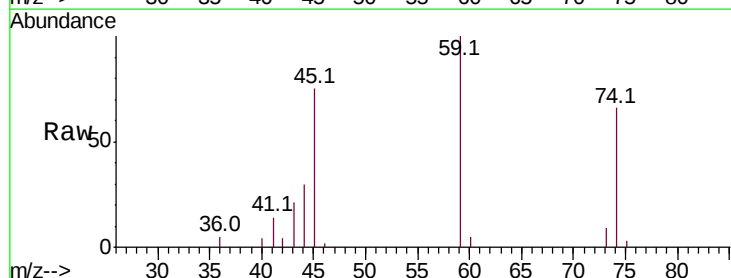
MMDadoda
12/7/2018 10:34:45 AM



#8

Diethyl Ether
Concen: 4.860 ug/l
RT: 2.10 min Scan# 289
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
74	100		
45	117.6	59.7	179.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.029 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

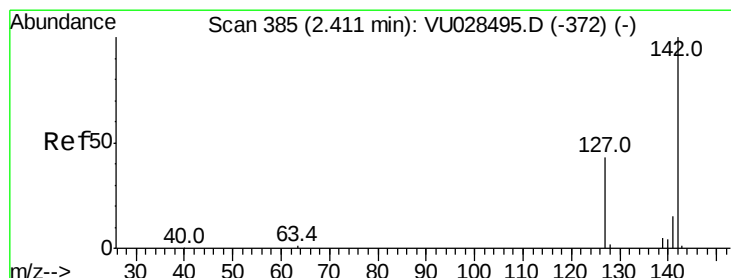
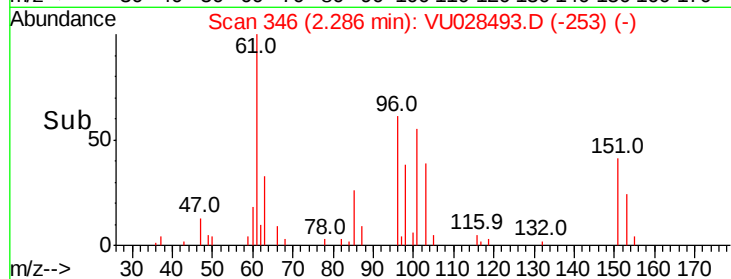
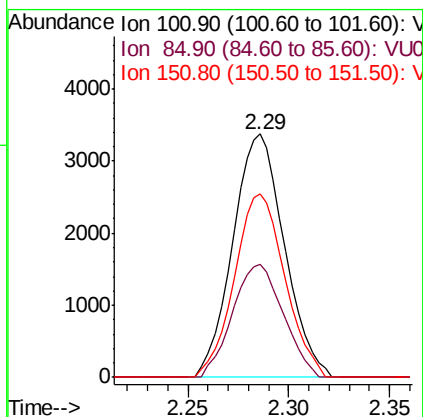
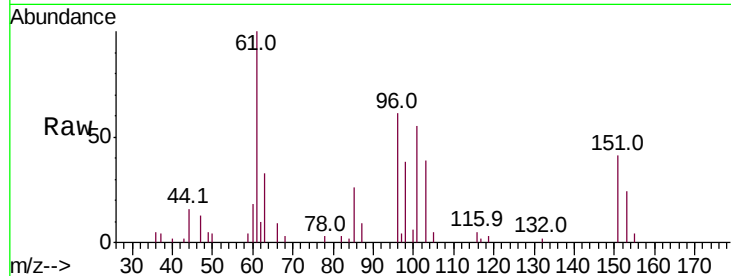
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	6017
Ion Ratio	Lower	Upper	
101	100		
85	45.8	36.4	54.6
151	73.9	58.2	87.2

Manual Integrations
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MMDadoda
12/7/2018 10:34:45 AM



#10

Methyl Iodide

Concen: 4.195 ug/l

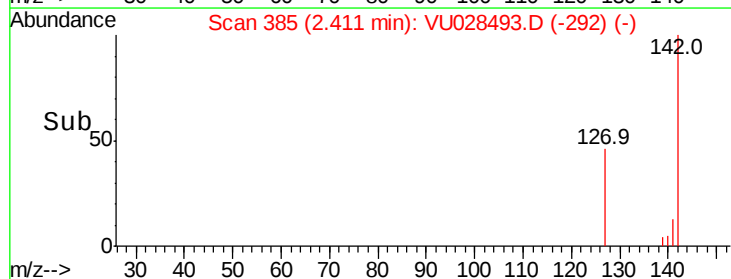
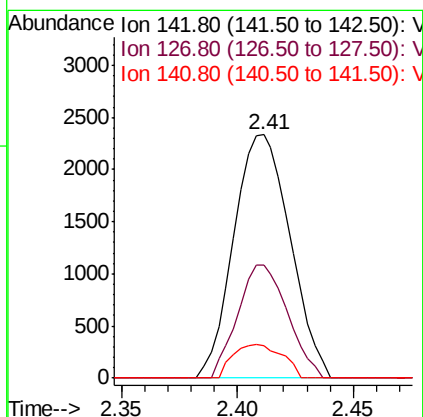
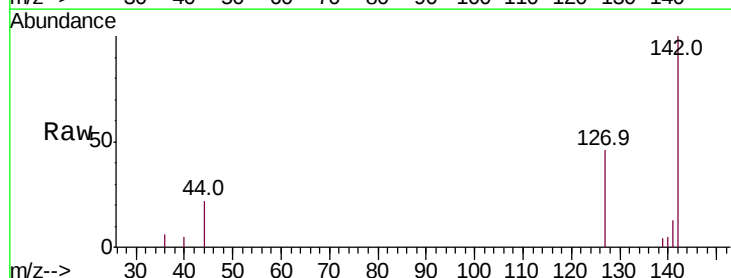
RT: 2.41 min Scan# 385

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Tgt Ion:	142	Resp:	3938
Ion Ratio	Lower	Upper	
142	100		
127	41.2	33.5	50.3
141	12.0	11.2	16.8





#11

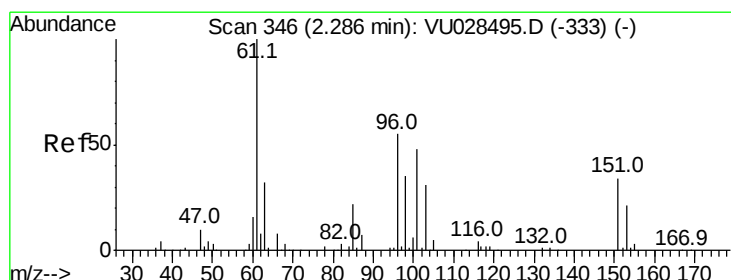
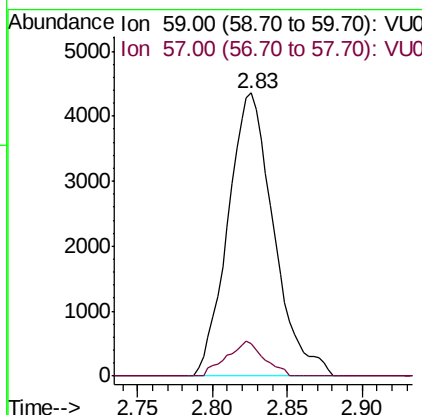
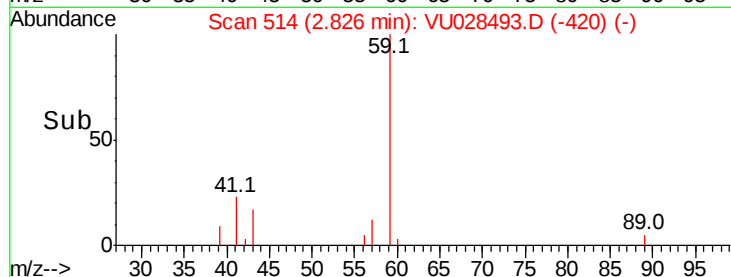
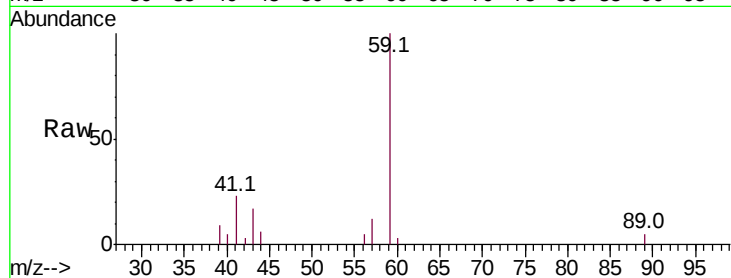
Tert butyl alcohol
Concen: 25.514 ug/l
RT: 2.83 min Scan# 514
Delta R.T. 0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.0	12.0

Manual Integrations
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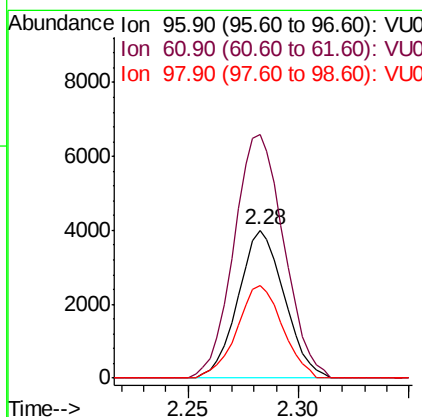
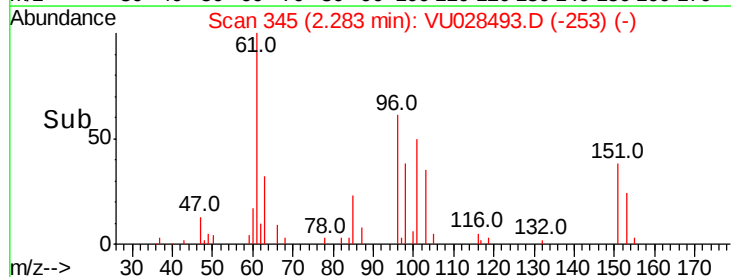
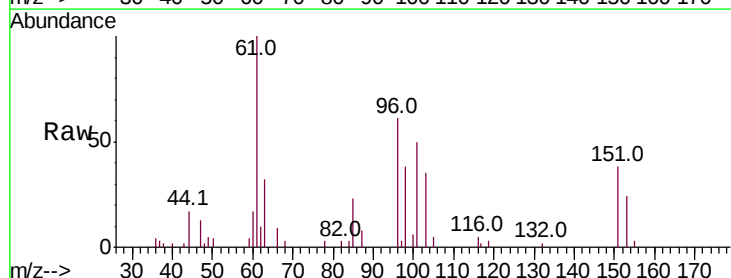
MMDadoda
12/7/2018 10:34:45 AM

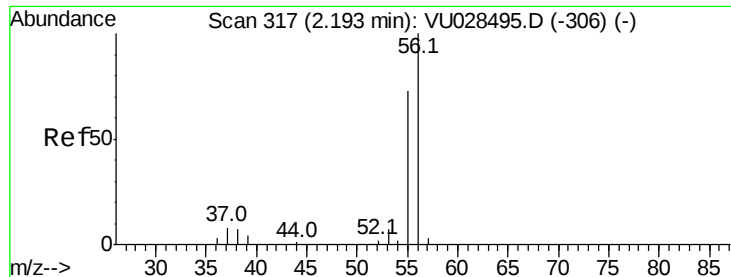


#12

1,1-Dichloroethene
Concen: 4.873 ug/l
RT: 2.28 min Scan# 345
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.7	146.4	219.6
98	62.8	51.8	77.8





#13

Acrolein

Concen: 25.021 ug/l

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 7251

Ion Ratio Lower Upper

56 100

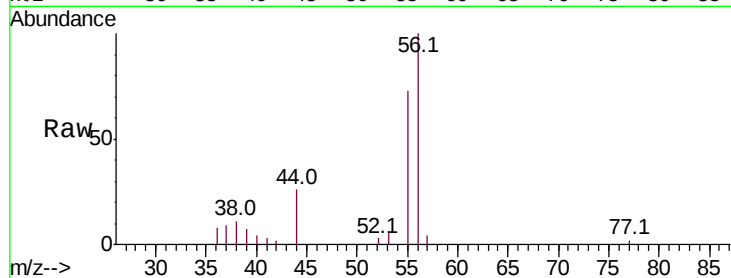
55 73.6 57.5 86.3

Manual Integrations

APPROVED

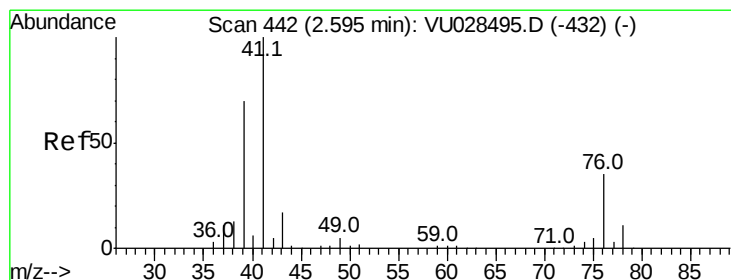
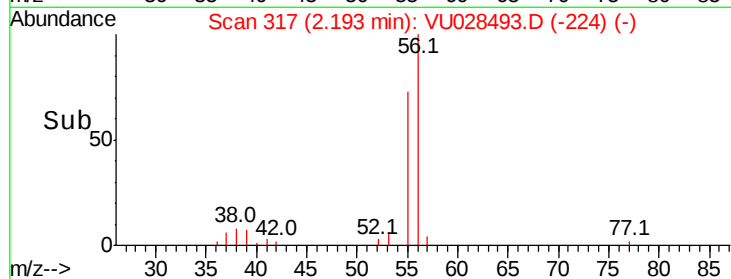
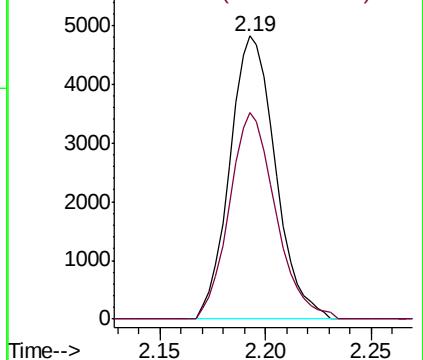
MMDadoda

12/7/2018 10:34:45 AM



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#14

Allyl chloride

Concen: 4.770 ug/l

RT: 2.59 min Scan# 441

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

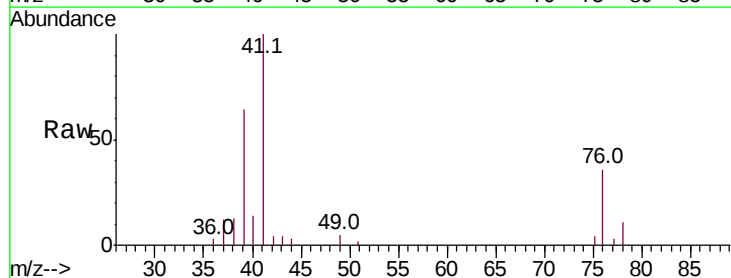
Tgt Ion: 41 Resp: 13432

Ion Ratio Lower Upper

41 100

39 65.7 50.8 76.2

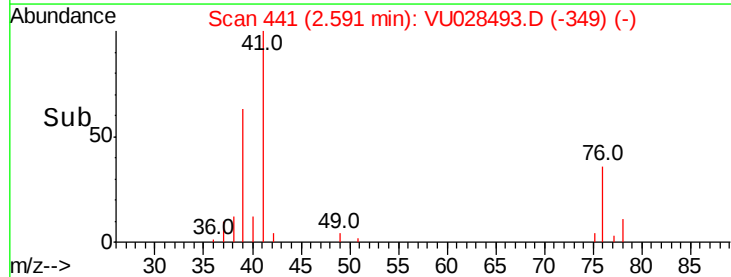
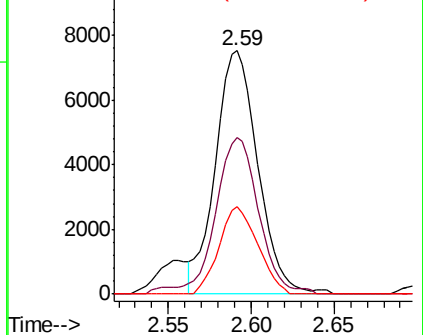
76 32.5 24.8 37.2

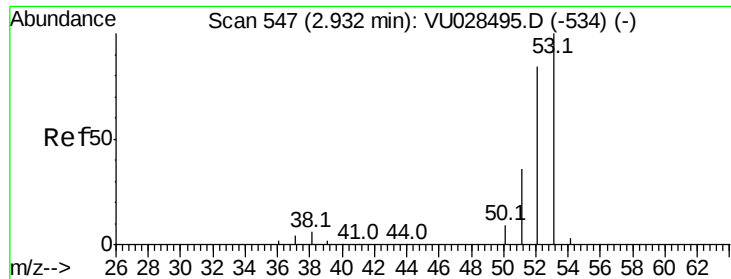


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





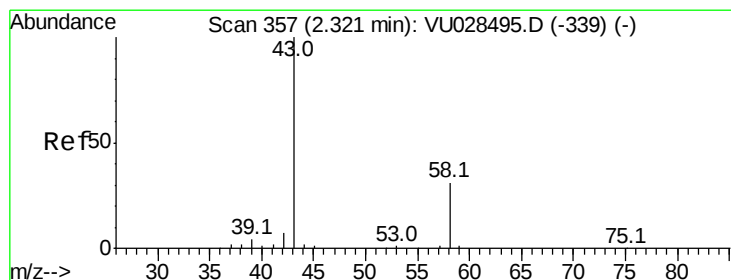
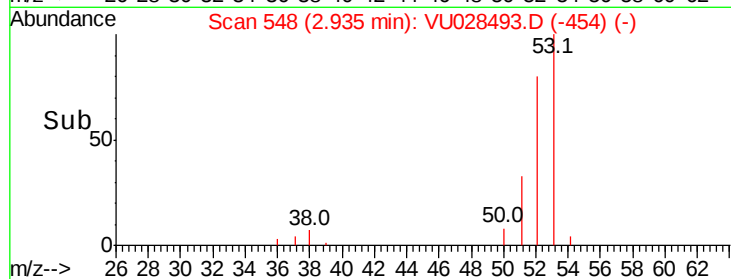
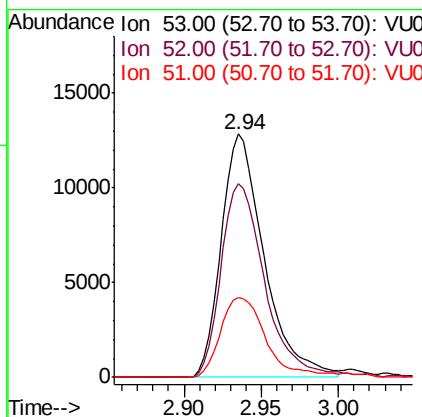
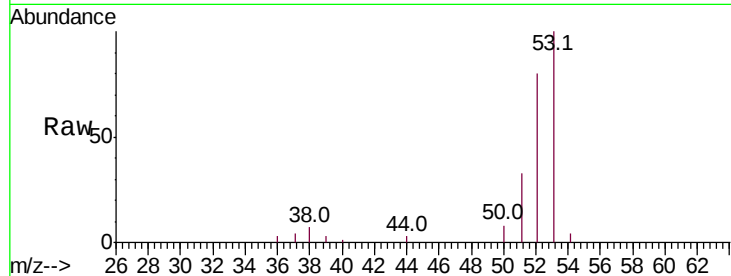
#15
 Acrylonitrile
 Concen: 24.563 ug/l
 RT: 2.94 min Scan# 548
 Delta R.T. 0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:	53	Resp:	24791
Ion	Ratio	Lower	Upper
53	100		
52	81.0	66.1	99.1
51	34.6	28.1	42.1

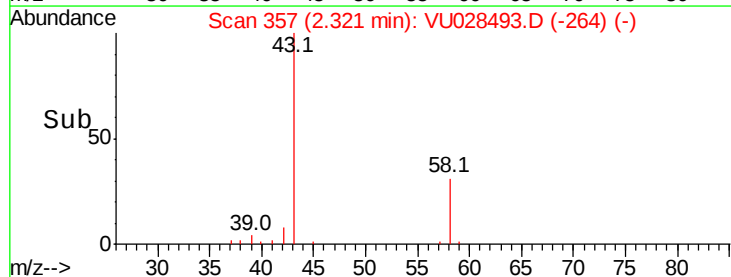
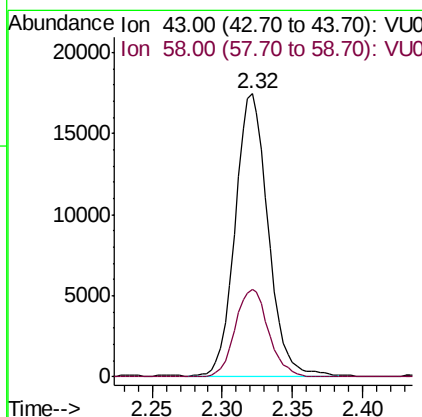
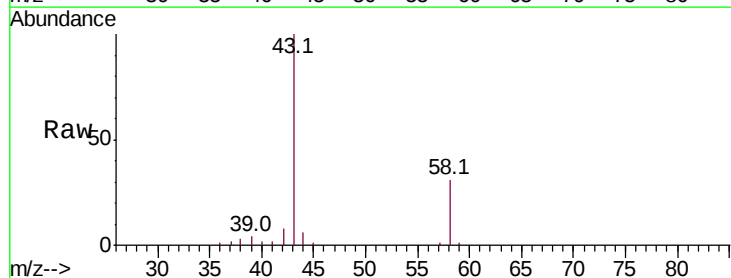
Manual Integrations
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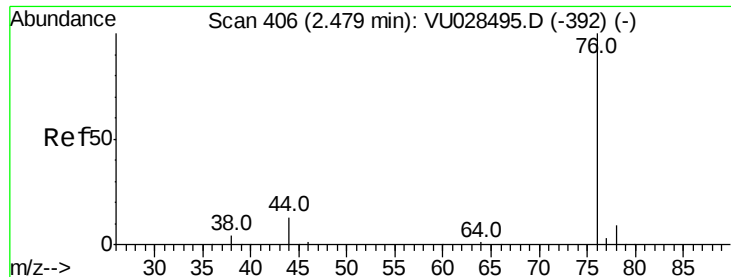
MMDadoda
 12/7/2018 10:34:45 AM



#16
 Acetone
 Concen: 26.996 ug/l
 RT: 2.32 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Tgt Ion:	43	Resp:	28743
Ion	Ratio	Lower	Upper
43	100		
58	30.8	24.6	37.0





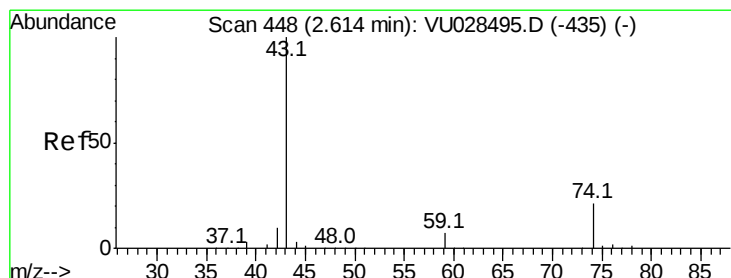
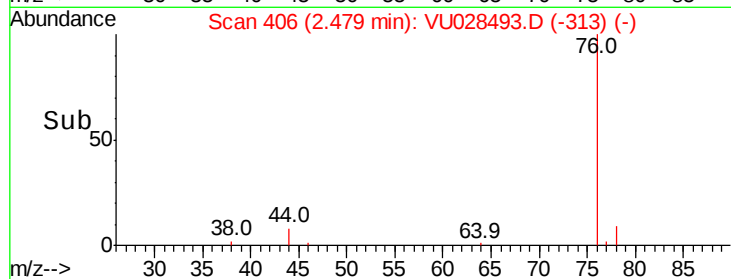
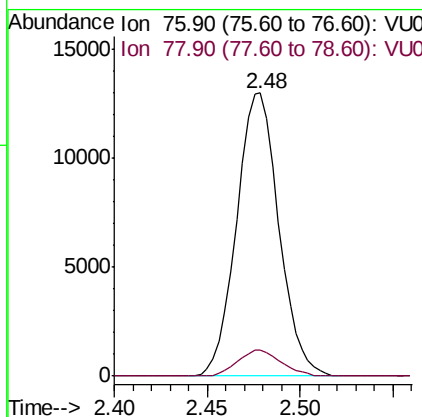
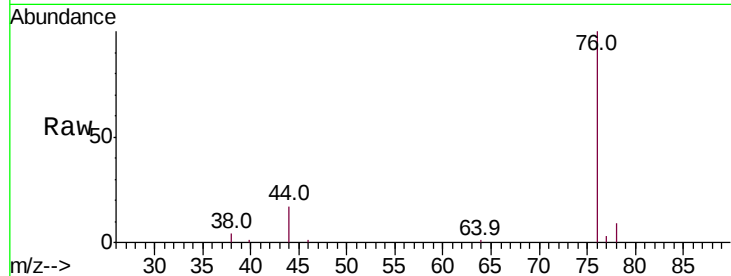
#17
Carbon Disulfide
Concen: 4.795 ug/l
RT: 2.48 min Scan# 406
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 76 Resp: 20565
Ion Ratio Lower Upper
76 100
78 9.4 7.2 10.8

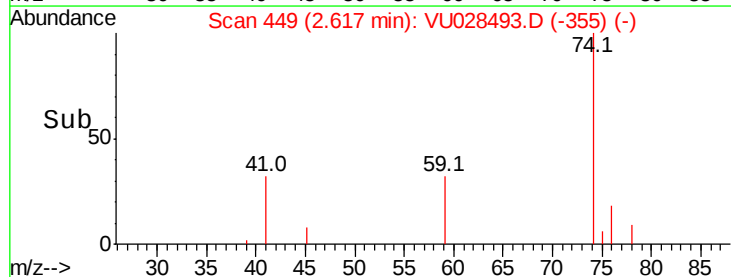
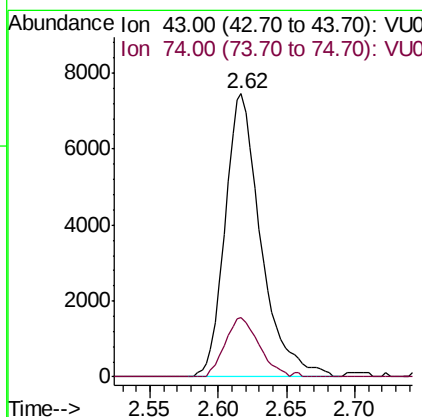
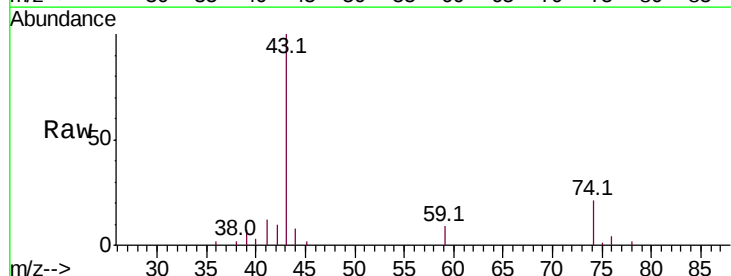
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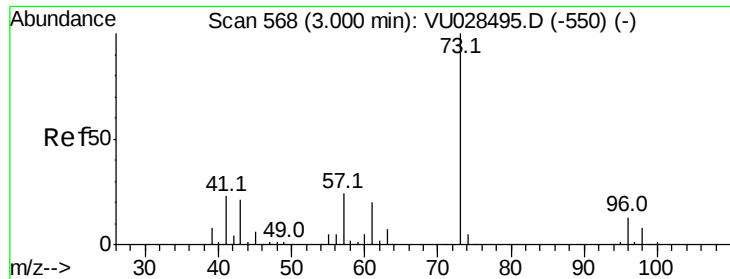
MMDadoda
12/7/2018 10:34:45 AM



#18
Methyl Acetate
Concen: 4.930 ug/l
RT: 2.62 min Scan# 449
Delta R.T. 0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion: 43 Resp: 13608
Ion Ratio Lower Upper
43 100
74 19.7 16.4 24.6





#19

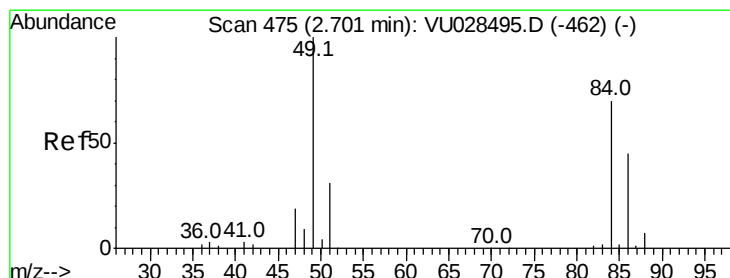
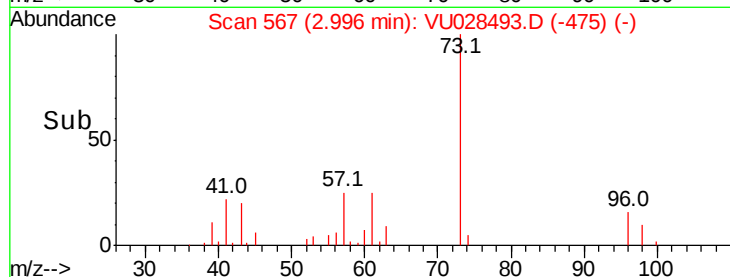
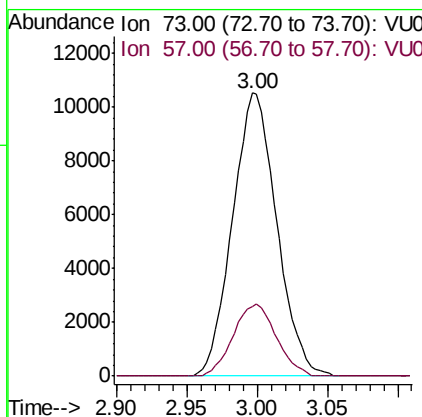
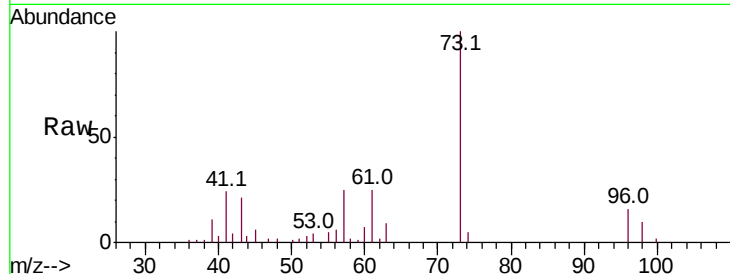
Methyl tert-butyl Ether
 Concen: 5.117 ug/l
 RT: 3.00 min Scan# 567
 Delta R.T. -0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	24.8	19.4	29.2

Manual Integrations
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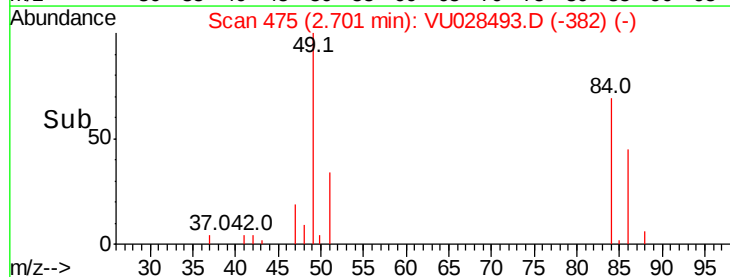
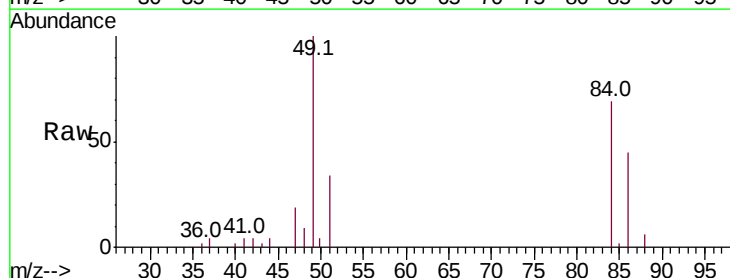
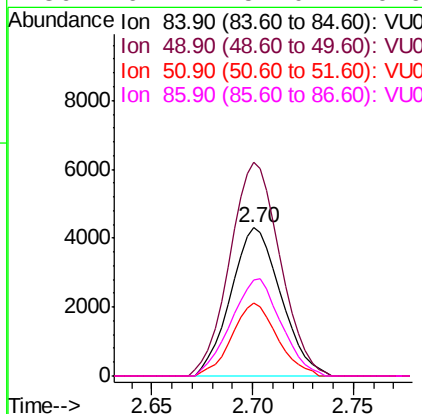
MMDadoda
 12/7/2018 10:34:45 AM

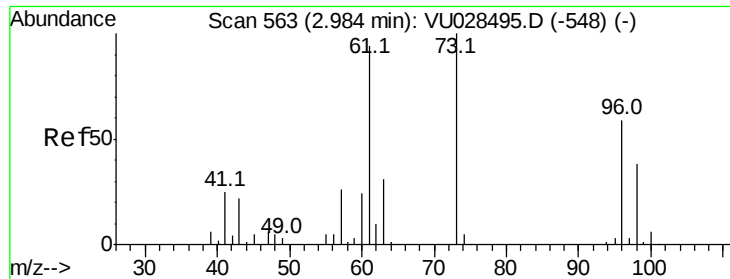


#20

Methylene Chloride
 Concen: 4.769 ug/l
 RT: 2.70 min Scan# 475
 Delta R.T. -0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
84	100		
49	144.0	114.0	171.0
51	49.0	35.1	52.7
86	64.4	51.0	76.6





#21

trans-1,2-Dichloroethene

Concen: 5.033 ug/l

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 6746

Ion Ratio Lower Upper

96 100

61 160.7 127.0 190.4

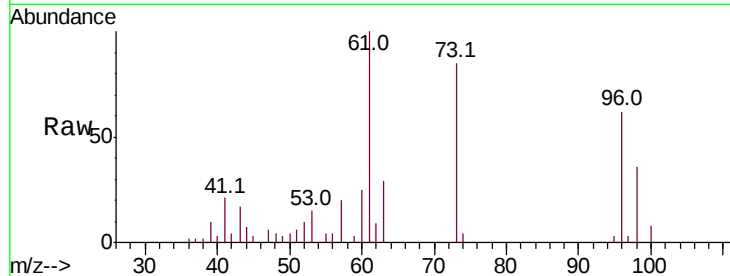
98 58.1 51.9 77.9

Manual Integrations

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MMDadoda

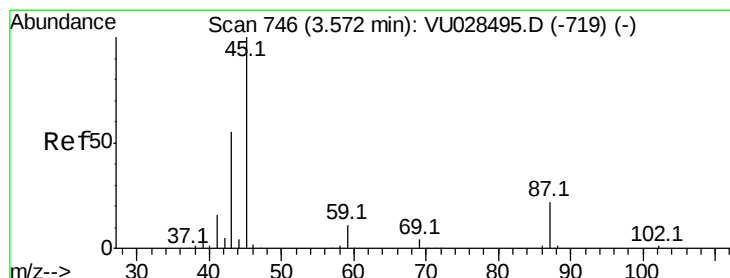
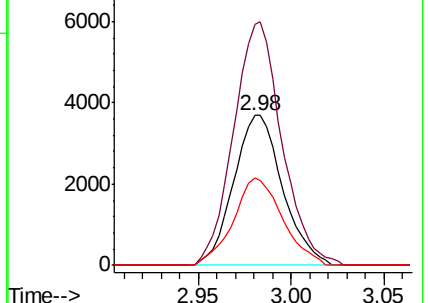
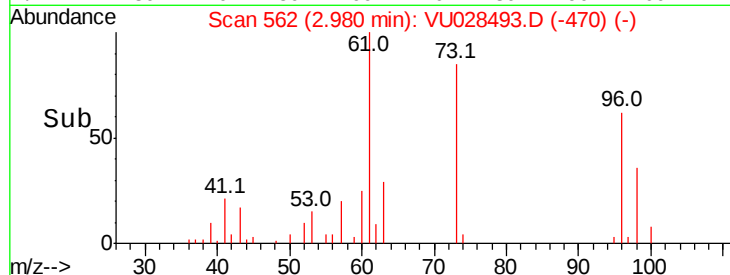
12/7/2018 10:34:45 AM



Abundance Ion 95.90 (95.60 to 96.60): VU028493.D (-470) (-)

Ion 60.90 (60.60 to 61.60): VU028493.D (-470) (-)

Ion 97.90 (97.60 to 98.60): VU028493.D (-470) (-)



#22

Diisopropyl ether

Concen: 4.951 ug/l

RT: 3.57 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Tgt Ion: 45 Resp: 27114

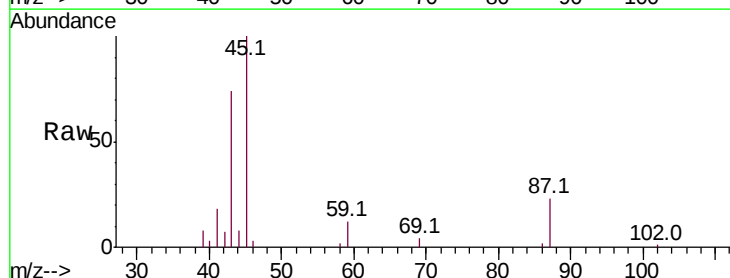
Ion Ratio Lower Upper

45 100

43 70.9 45.3 67.9#

87 23.1 17.6 26.4

59 11.7 8.8 13.2

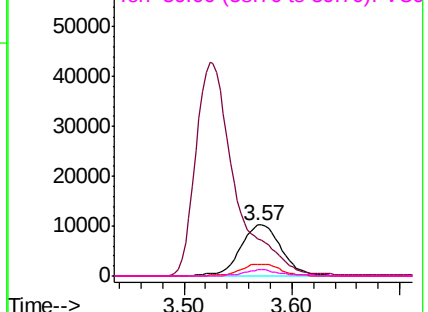
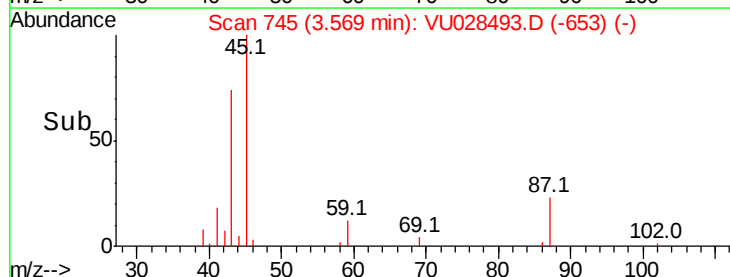


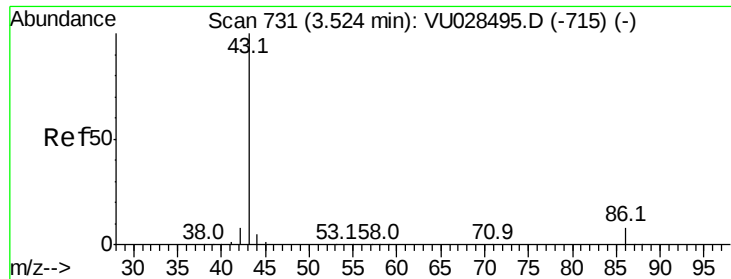
Abundance Ion 45.00 (44.70 to 45.70): VU028493.D (-653) (-)

Ion 43.00 (42.70 to 43.70): VU028493.D (-653) (-)

Ion 87.00 (86.70 to 87.70): VU028493.D (-653) (-)

Ion 59.00 (58.70 to 59.70): VU028493.D (-653) (-)





#23

Vinyl Acetate

Concen: 24.020 ug/l

RT: 3.52 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 108505

Ion Ratio Lower Upper

43 100

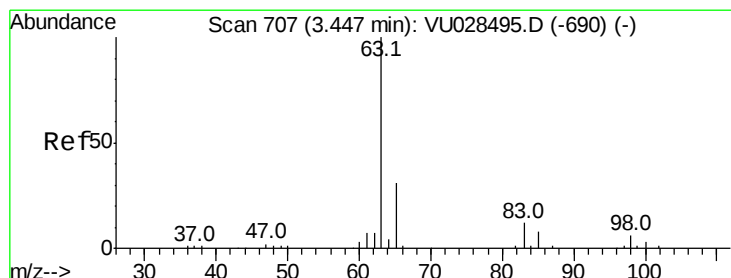
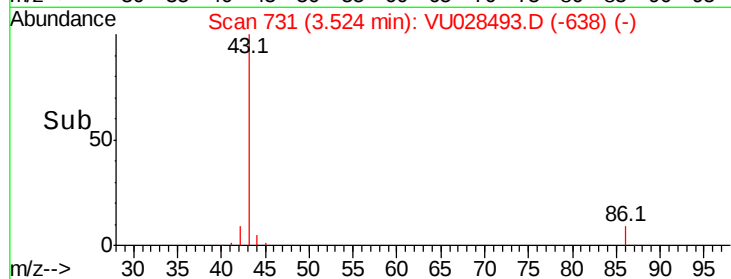
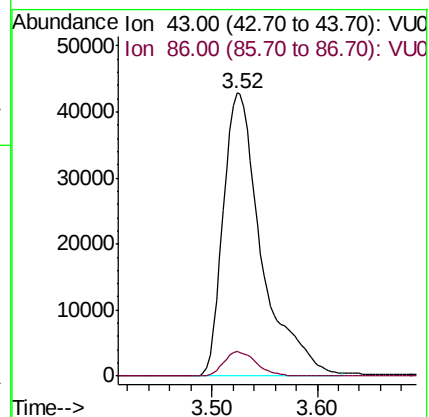
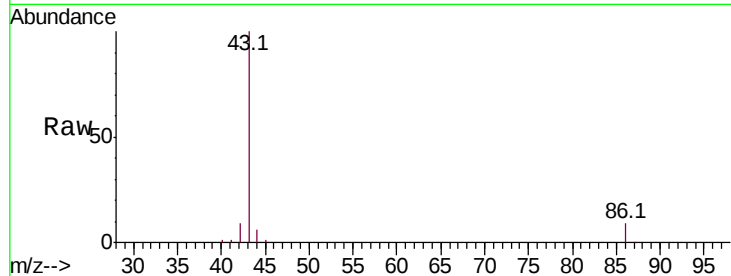
86 8.6 6.8 10.2

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 4.953 ug/l

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

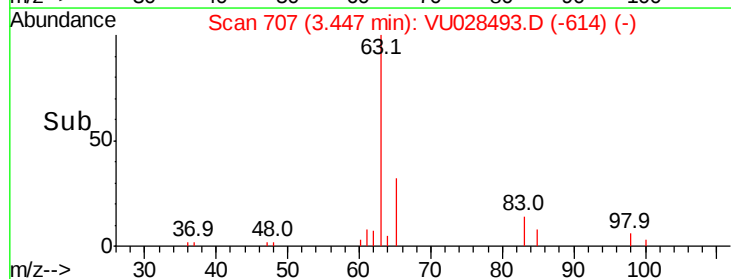
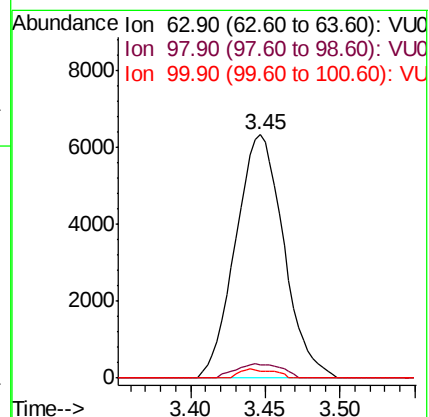
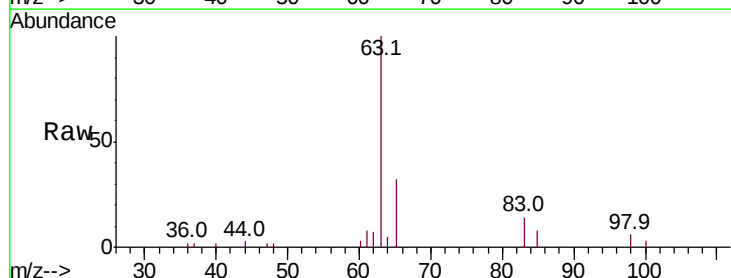
Tgt Ion: 63 Resp: 14198

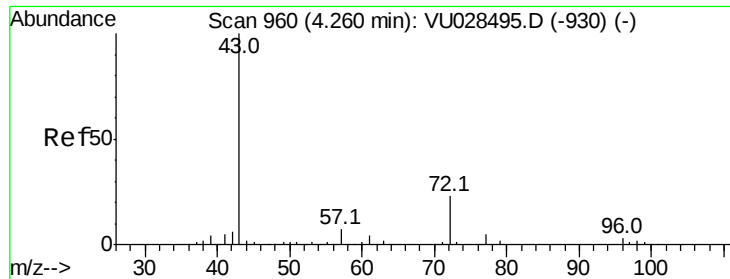
Ion Ratio Lower Upper

63 100

98 5.7 3.0 9.2

100 2.8 1.7 5.1





#25

2-Butanone

Concen: 25.567 ug/l

RT: 4.26 min Scan# 961

Delta R.T. 0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 37202

Ion Ratio Lower Upper

43 100

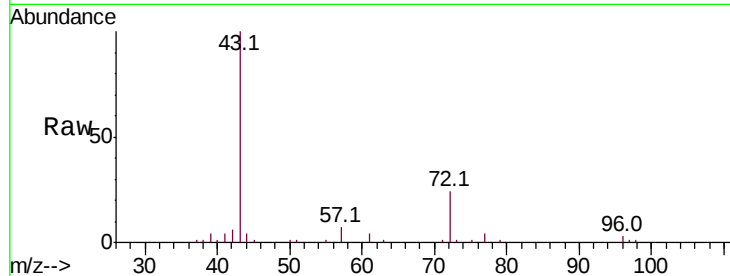
72 23.5 18.6 28.0

Manual Integrations

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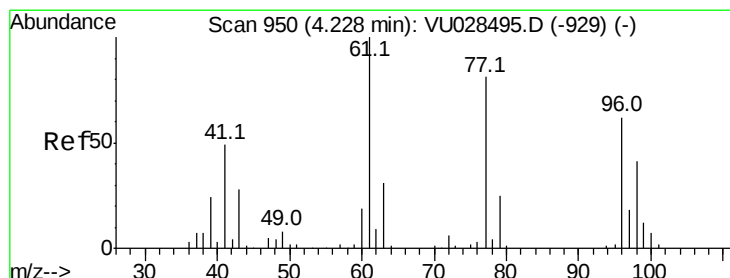
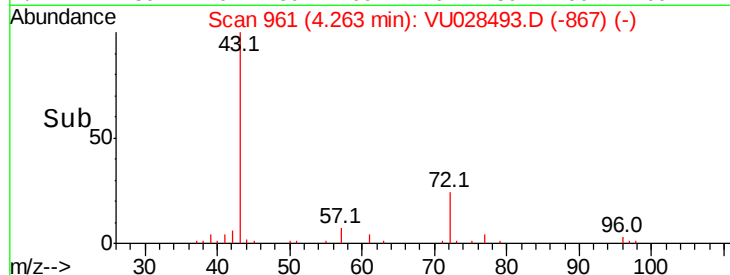
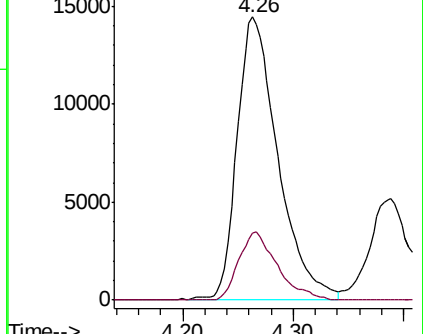
MMDadoda

12/7/2018 10:34:45 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 5.118 ug/l

RT: 4.23 min Scan# 951

Delta R.T. 0.00 min

Lab File: VU028493.D

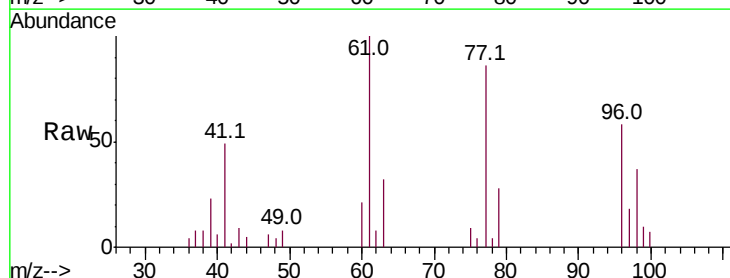
Acq: 06 Dec 2018 11:47

Tgt Ion: 77 Resp: 11626

Ion Ratio Lower Upper

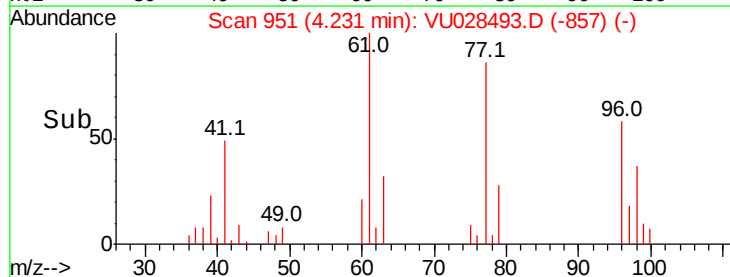
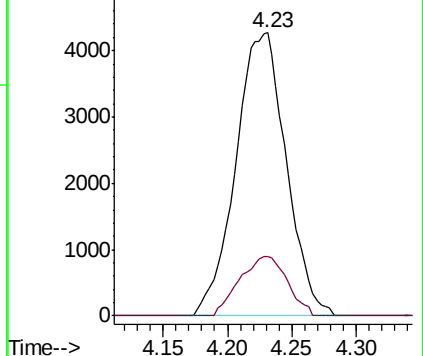
77 100

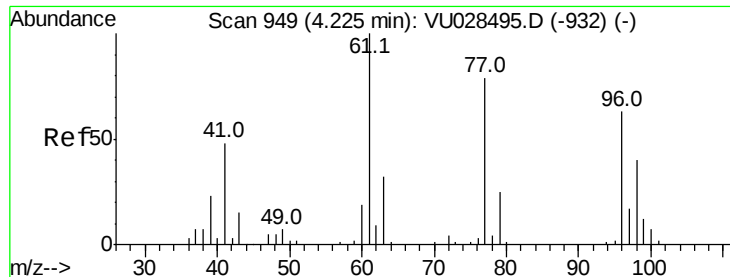
97 19.8 11.0 33.0



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#27

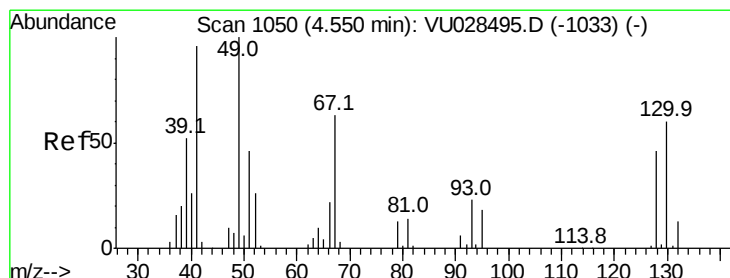
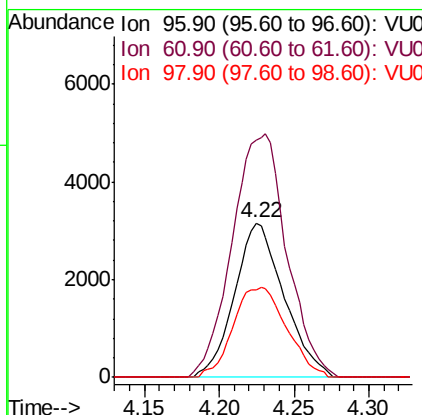
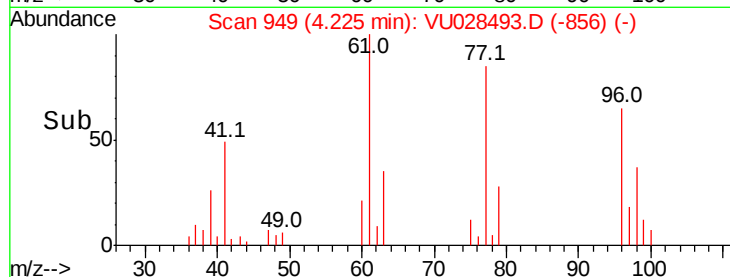
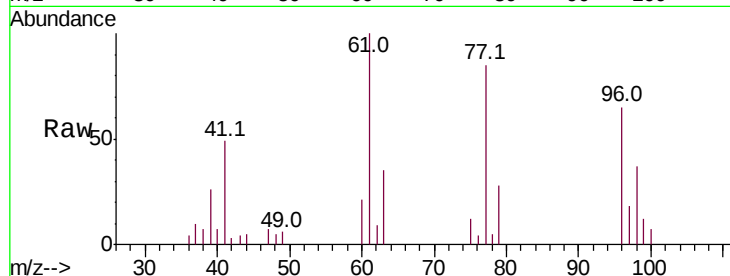
cis-1,2-Dichloroethene
Concen: 4.786 ug/l
RT: 4.22 min Scan# 949
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	174.0	0.0	332.4
98	63.1	0.0	129.0

Manual Integrations
APPROVED

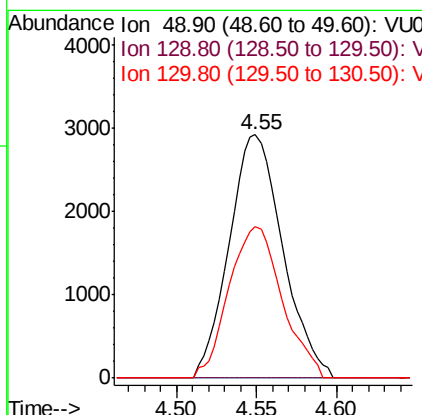
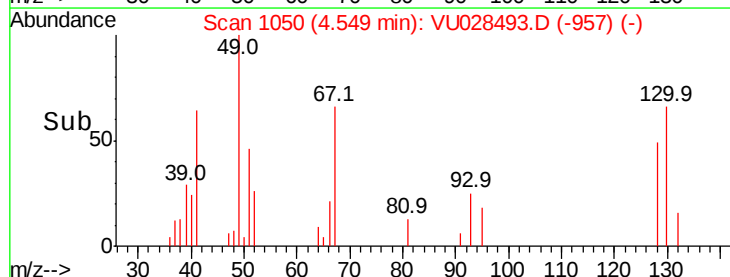
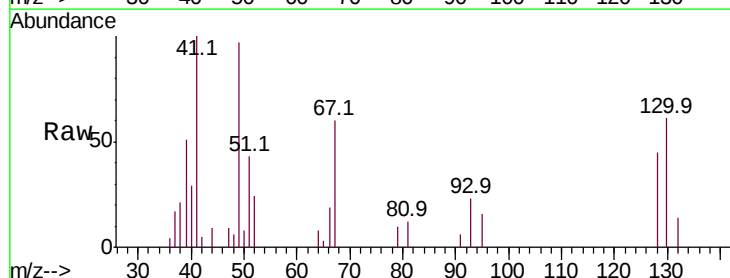
MMDadoda
12/7/2018 10:34:45 AM

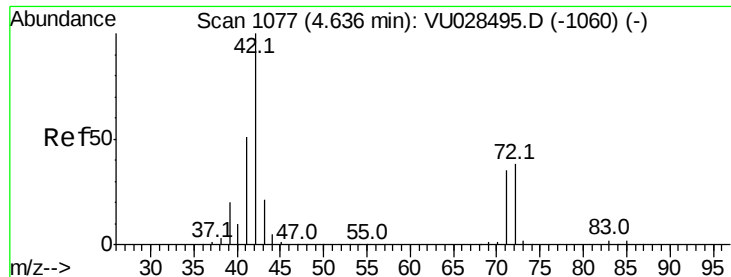


#28

Bromochloromethane
Concen: 5.148 ug/l
RT: 4.55 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.0
130	61.8	47.8	71.8





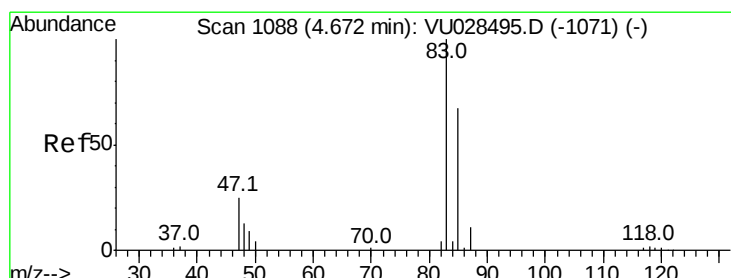
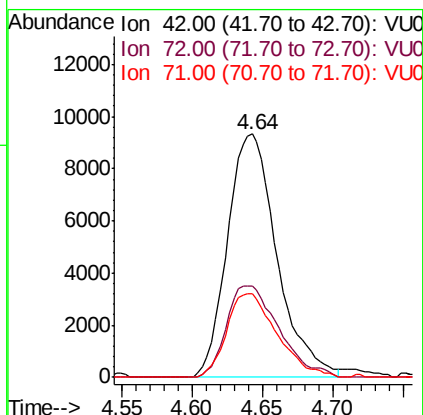
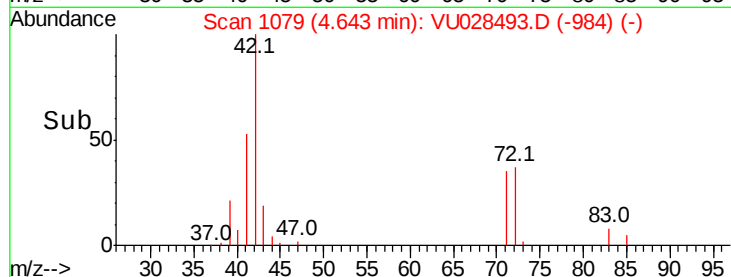
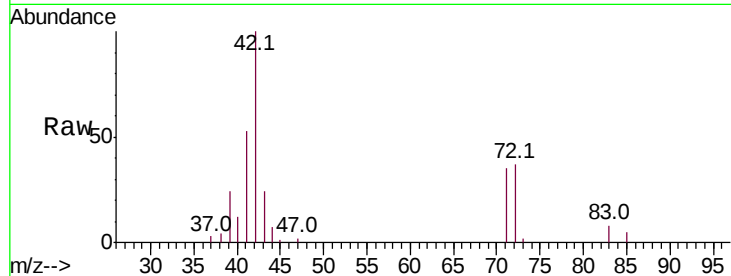
#29
Tetrahydrofuran
Concen: 24.506 ug/l
RT: 4.64 min Scan# 1079
Delta R.T. 0.01 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.7	31.4	47.0
71	35.0	28.6	43.0

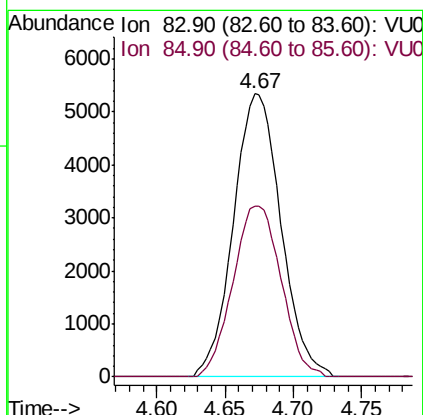
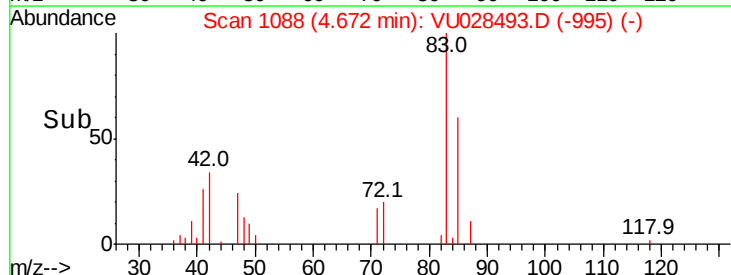
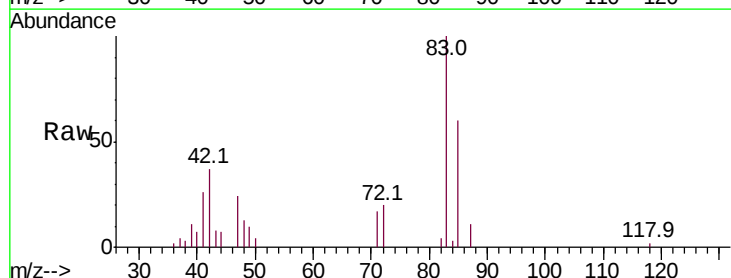
Manual Integrations
APPROVED

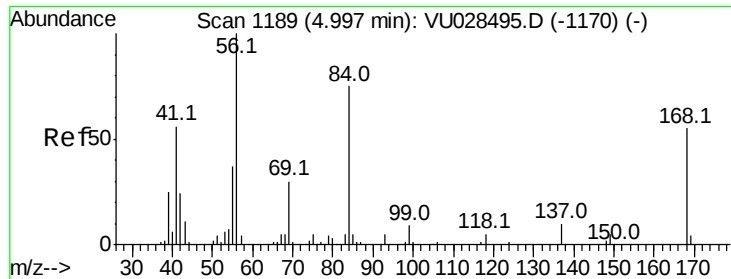
MMDadoda
12/7/2018 10:34:45 AM



#30
Chloroform
Concen: 5.179 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.3	53.6	80.4





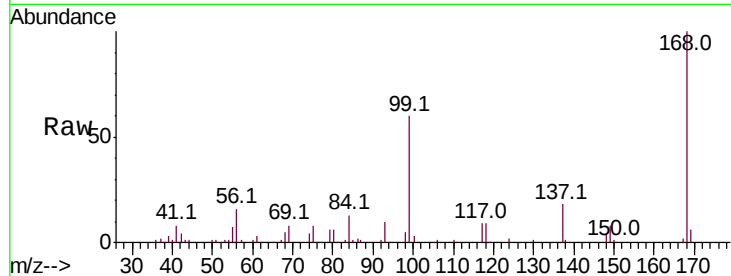
#31
Cyclohexane
Concen: 4.991 ug/l
RT: 4.99 min Scan# 1187
Delta R.T. -0.01 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	47.7	24.0	36.0#
84	81.7	59.7	89.5

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:34:45 AM

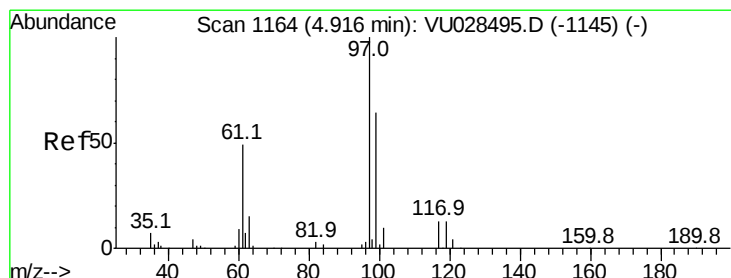
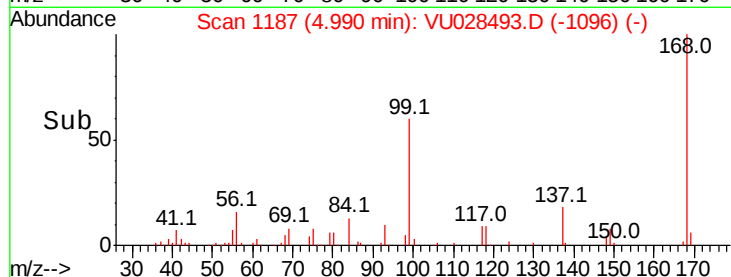
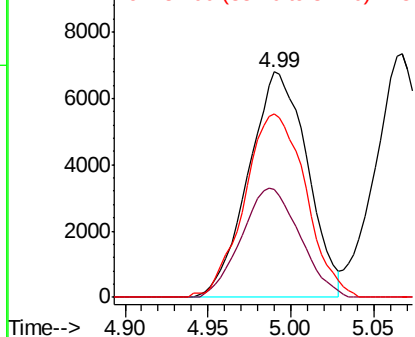


Abundance

Ion 56.00 (55.70 to 56.70): VU0

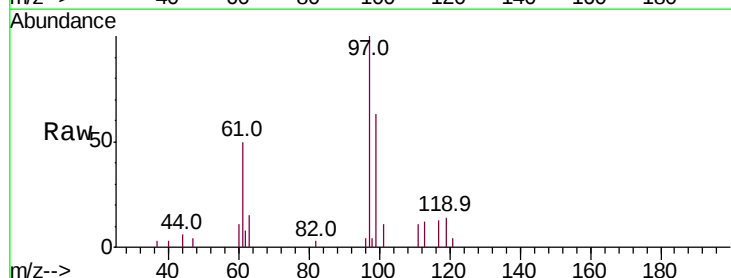
Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#32
1,1,1-Trichloroethane
Concen: 4.927 ug/l
RT: 4.91 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.1	52.3	78.5
61	50.3	39.0	58.6

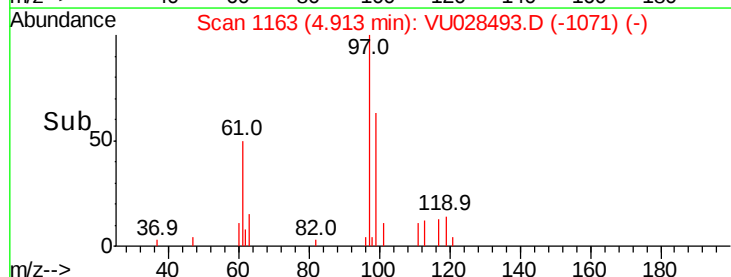
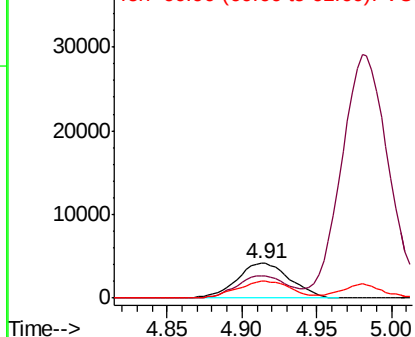


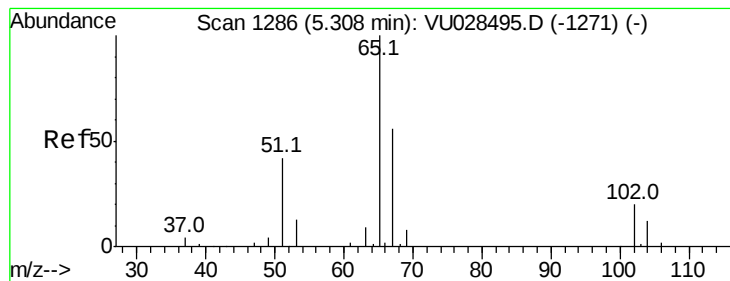
Abundance

Ion 96.90 (96.60 to 97.60): VU0

Ion 98.90 (98.60 to 99.60): VU0

Ion 60.90 (60.60 to 61.60): VU0





#33

1,2-Dichloroethane-d4

Concen: 5.185 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 65 Resp: 8460

Ion Ratio Lower Upper

65 100

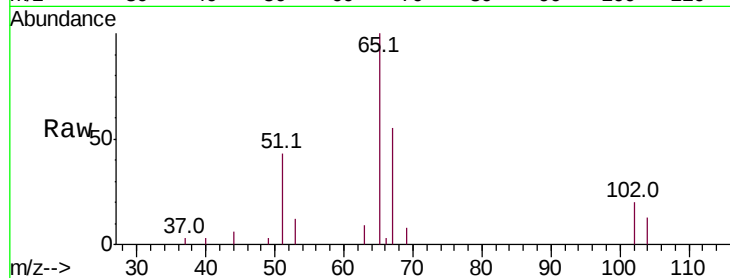
67 52.0 0.0 110.6

Manual Integrations

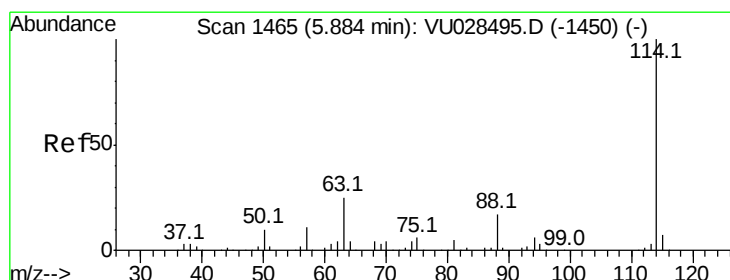
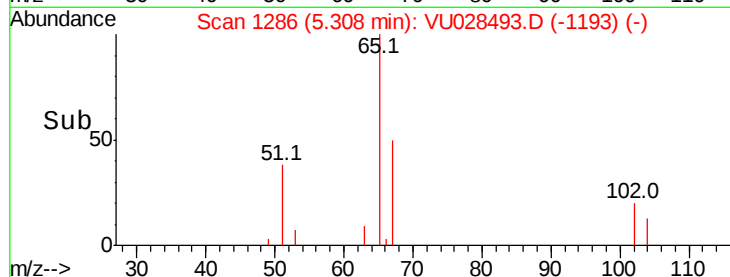
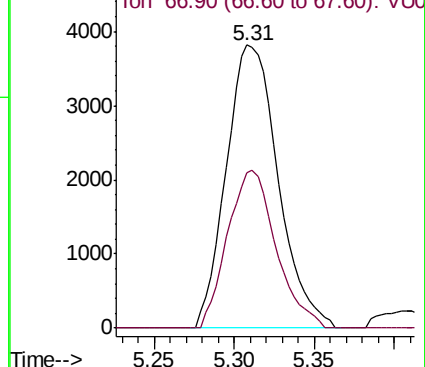
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12/7/2018 10:34:45 AM



Abundance Ion 64.90 (64.60 to 65.60): VU028493.D (-1193) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.88 min Scan# 1465

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

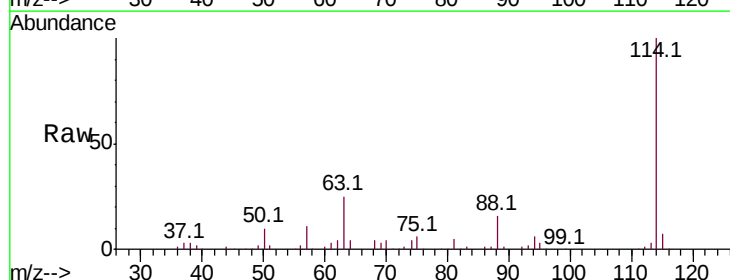
Tgt Ion: 114 Resp: 183542

Ion Ratio Lower Upper

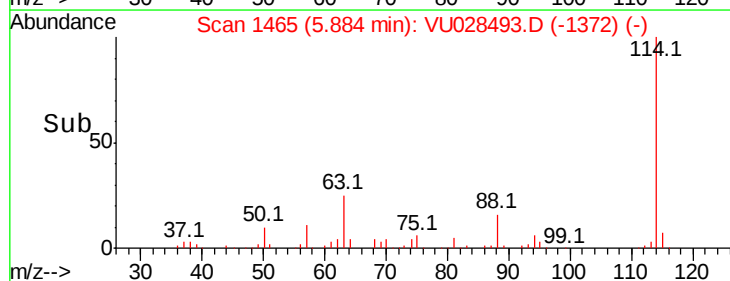
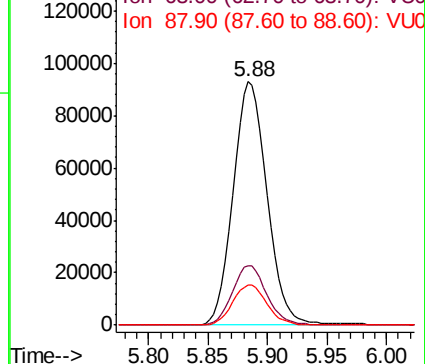
114 100

63 24.6 0.0 49.2

88 16.3 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): VU028493.D (-1372) (-)





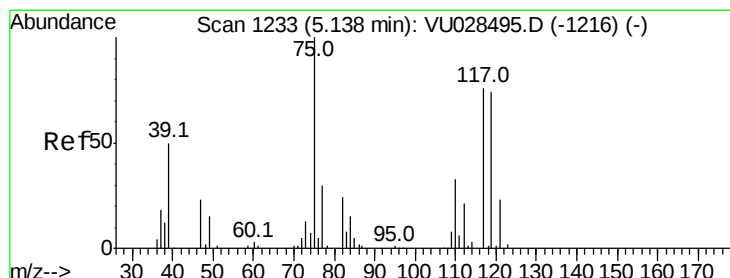
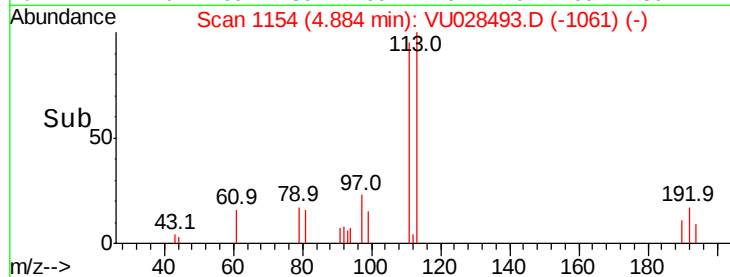
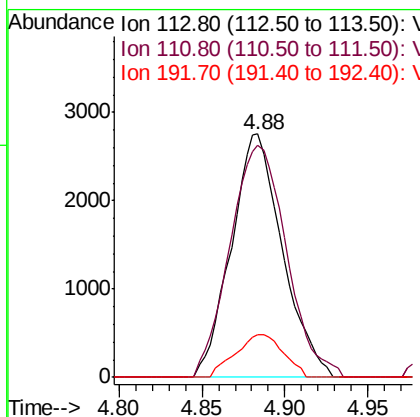
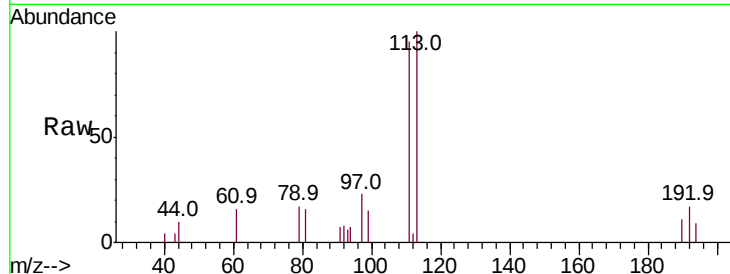
#35
Dibromofluoromethane
Concen: 5.122 ug/l
RT: 4.88 min Scan# 1154
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	105.4	83.4	125.0
192	16.3	14.8	22.2

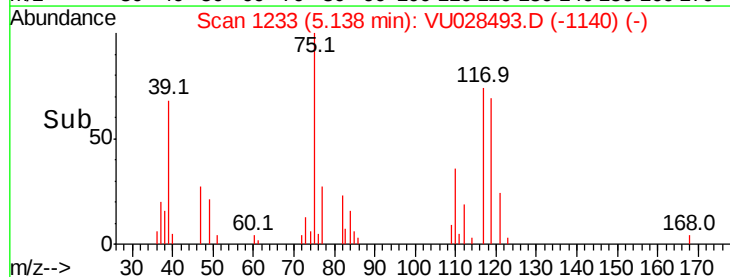
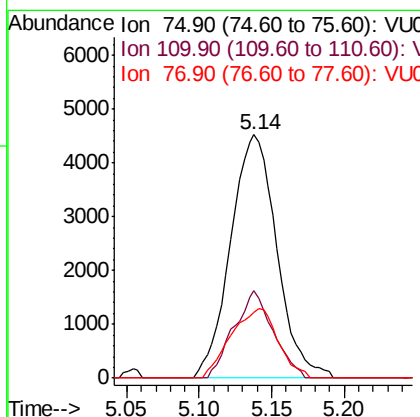
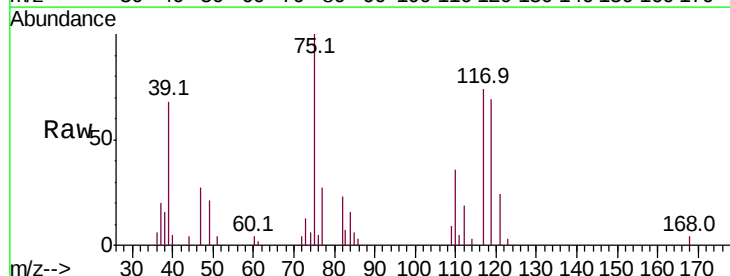
Manual Integrations
APPROVED

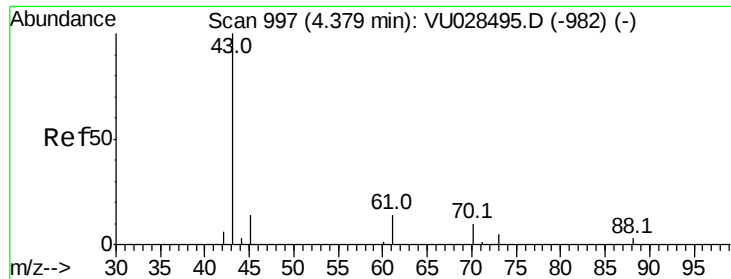
MMDadoda
12/7/2018 10:34:45 AM



#36
1,1-Dichloropropene
Concen: 4.972 ug/l
RT: 5.14 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
75	100		
110	30.5	16.1	48.2
77	29.1	24.5	36.7





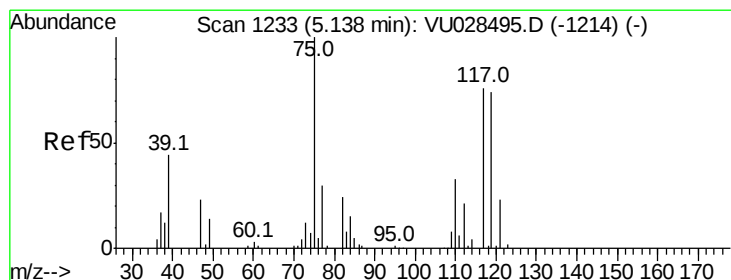
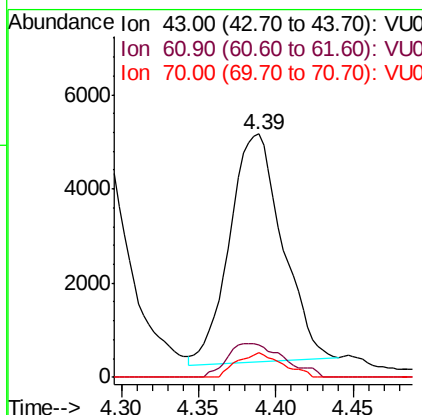
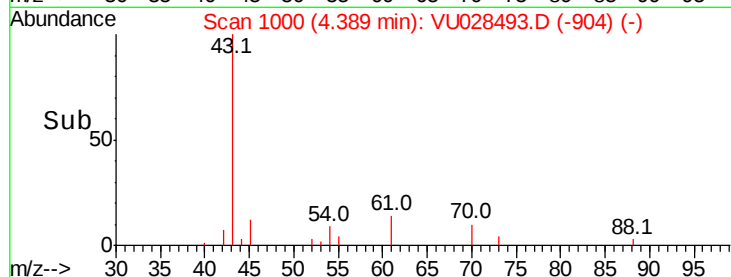
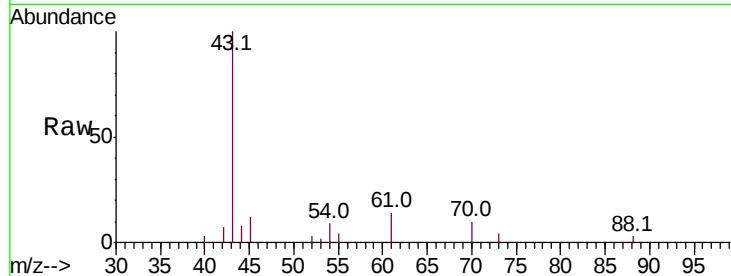
#37
Ethyl Acetate
Concen: 4.429 ug/l
RT: 4.39 min Scan# 1000
Delta R.T. 0.01 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:	43	Resp:	11500
Ion	Ratio	Lower	Upper
43	100		
61	15.9	11.0	16.4
70	9.2	7.4	11.0

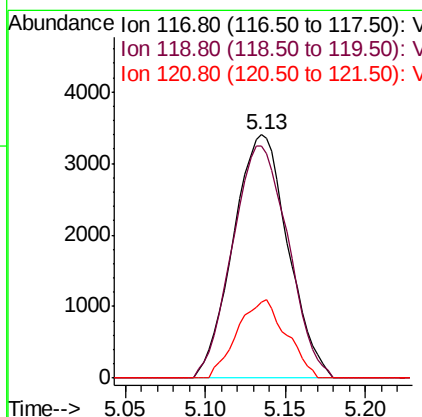
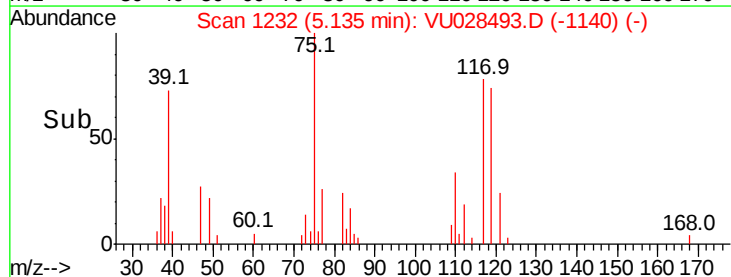
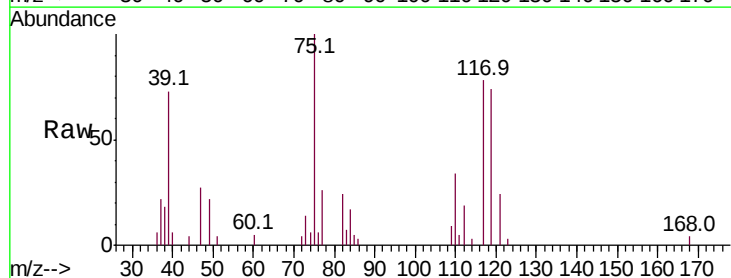
Manual Integrations
APPROVED

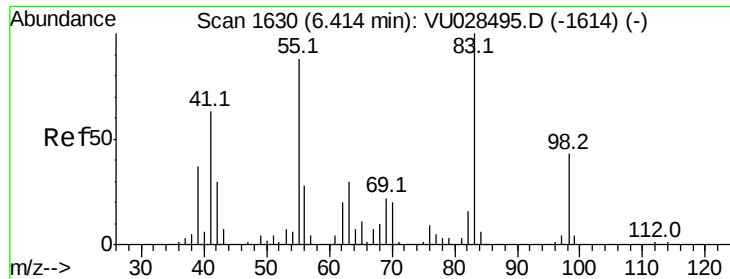
MMDadoda
12/7/2018 10:34:45 AM



#38
Carbon Tetrachloride
Concen: 4.928 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion:	117	Resp:	7977
Ion	Ratio	Lower	Upper
117	100		
119	95.3	77.6	116.4
121	31.4	24.6	36.8





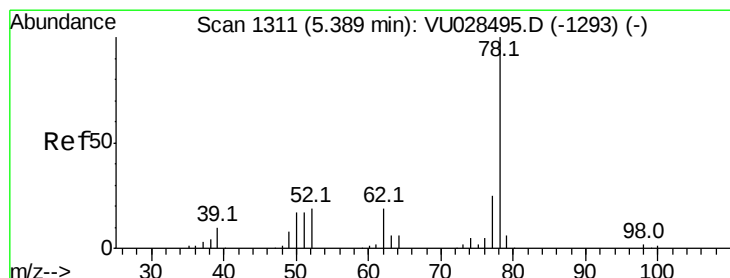
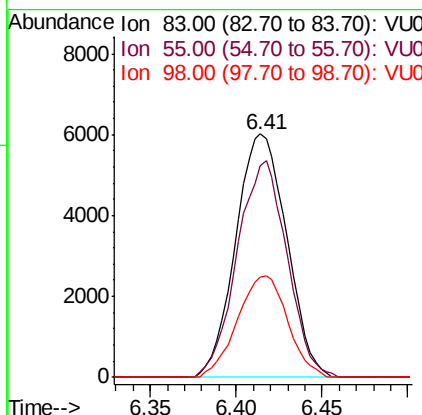
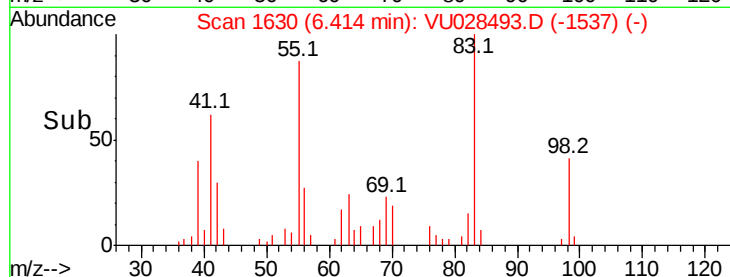
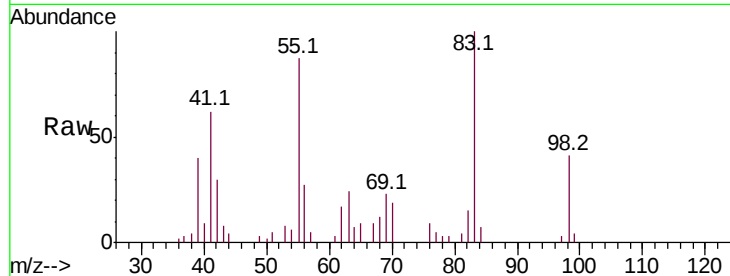
#39
Methvlcvclohexane
Concen: 5.063 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.8	70.2	105.2
98	41.2	34.2	51.4

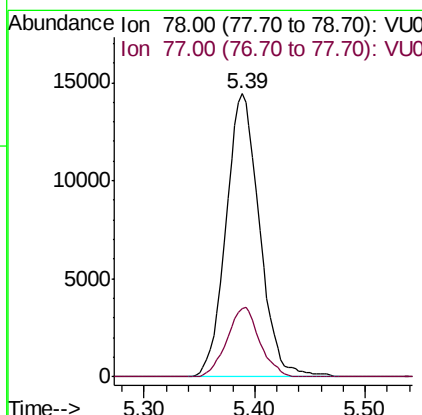
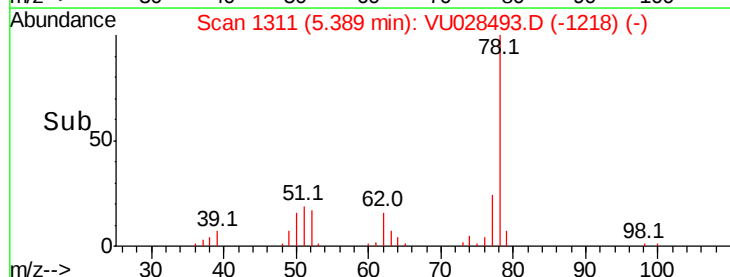
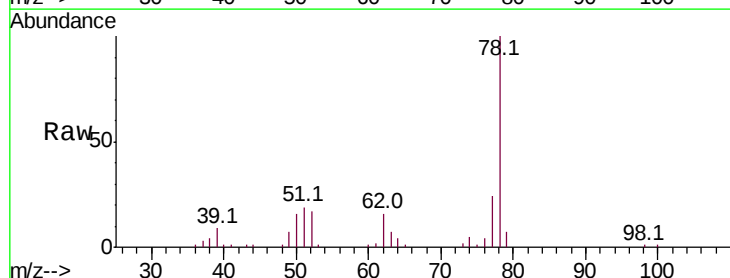
Manual Integrations
APPROVED

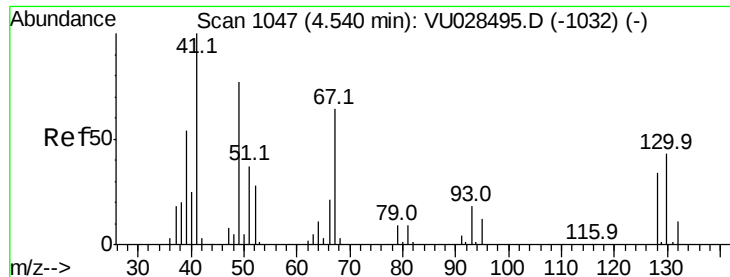
MMDadoda
12/7/2018 10:34:45 AM



#40
Benzene
Concen: 5.128 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.9	29.9





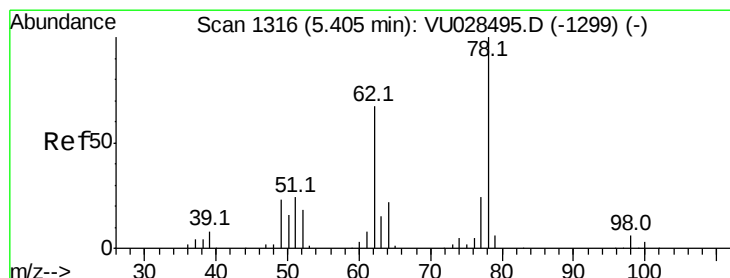
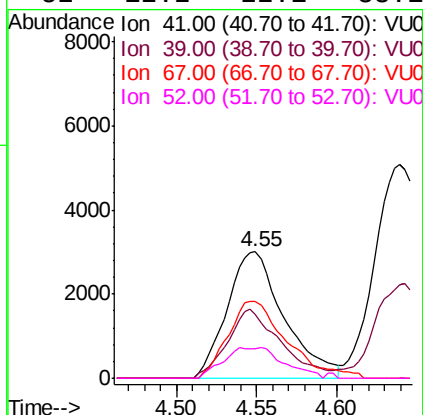
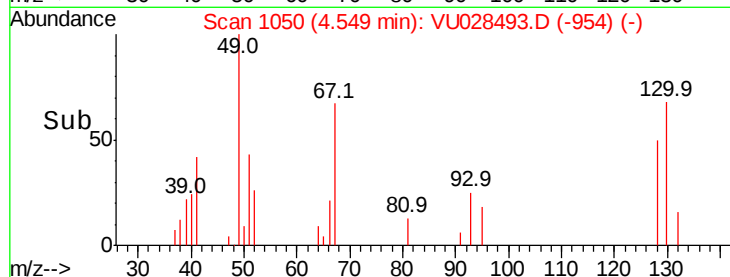
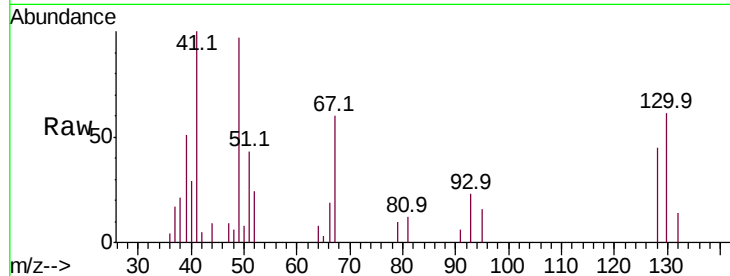
#41
Methacrylonitrile
Concen: 5.152 ug/l
RT: 4.55 min Scan# 1050
Delta R.T. 0.01 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	51.0	43.3	64.9
67	62.8	53.6	80.4
52	12.2	22.1	33.1#

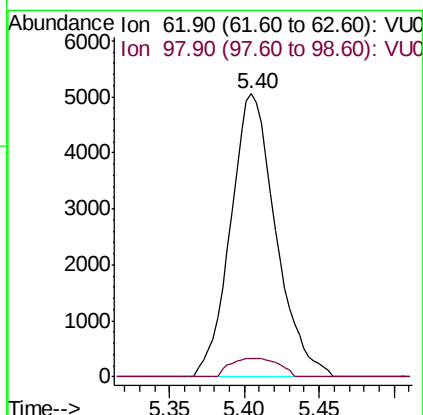
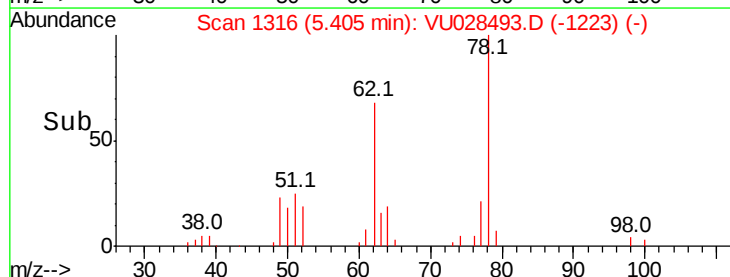
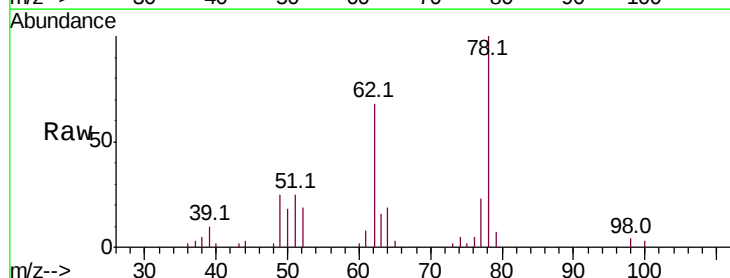
Manual Integrations
APPROVED

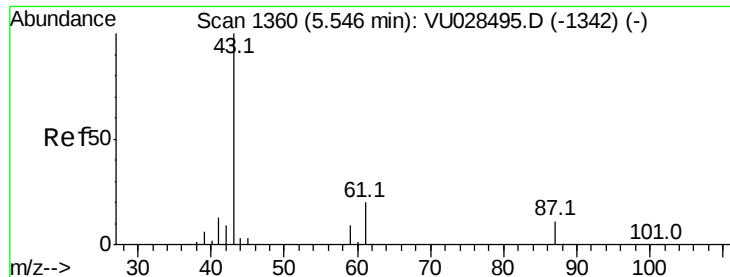
MMDadoda
12/7/2018 10:34:45 AM



#42
1,2-Dichloroethane
Concen: 5.138 ug/l
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.0	0.0	17.2





#43

Isopropyl Acetate

Concen: 4.931 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

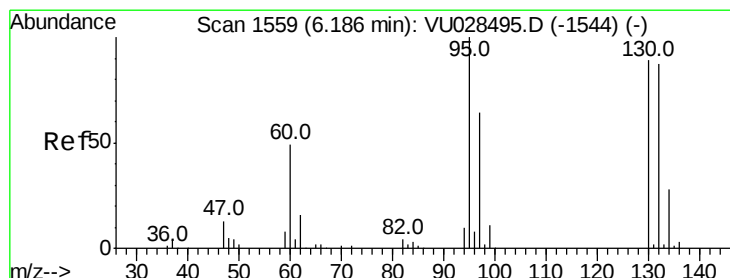
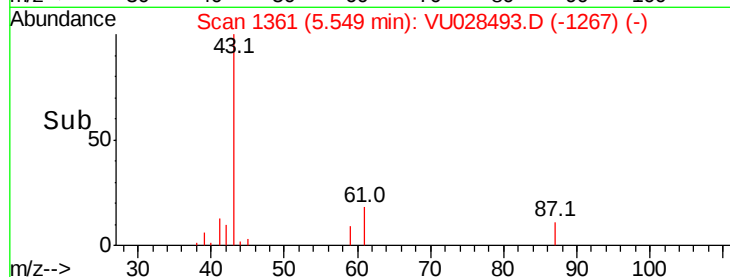
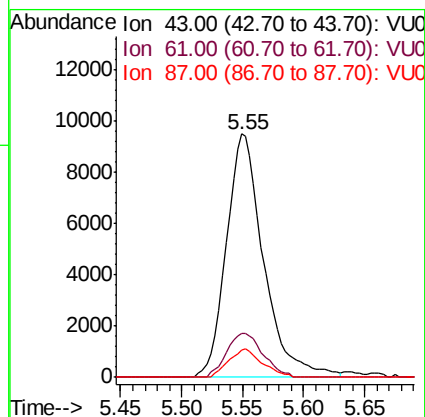
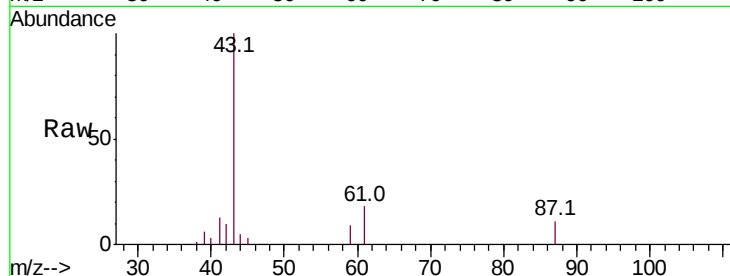
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	20251
Ion	Ratio	Lower	Upper
43	100		
61	17.6	15.5	23.3
87	10.5	8.7	13.1

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#44

Trichloroethene

Concen: 5.105 ug/l

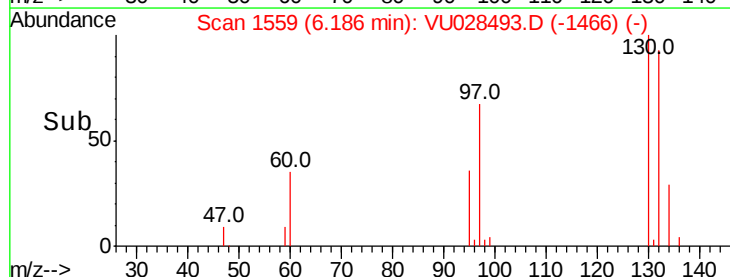
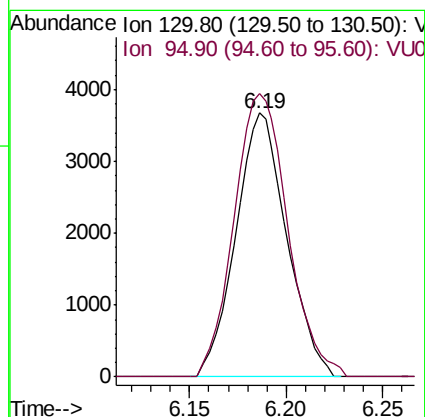
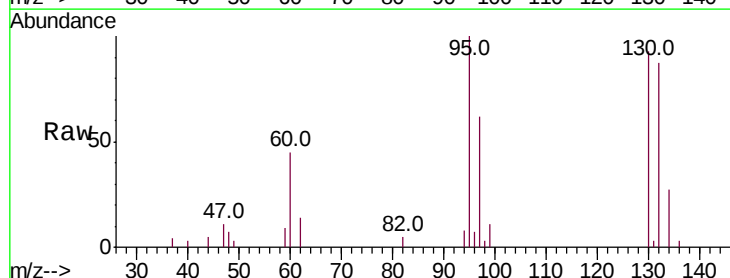
RT: 6.19 min Scan# 1559

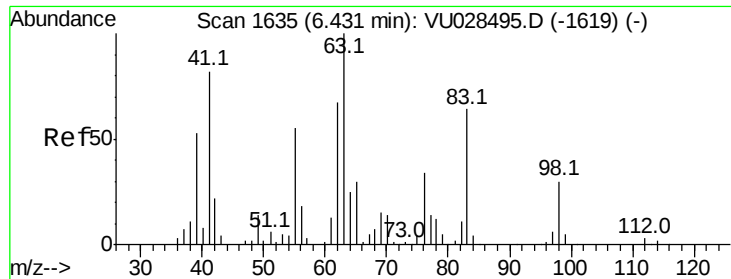
Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Tgt Ion:	130	Resp:	6715
Ion	Ratio	Lower	Upper
130	100		
95	107.4	0.0	224.0





#45

1,2-Dichloropropane

Concen: 5.148 ug/l

RT: 6.43 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 8564

Ion Ratio Lower Upper

63 100

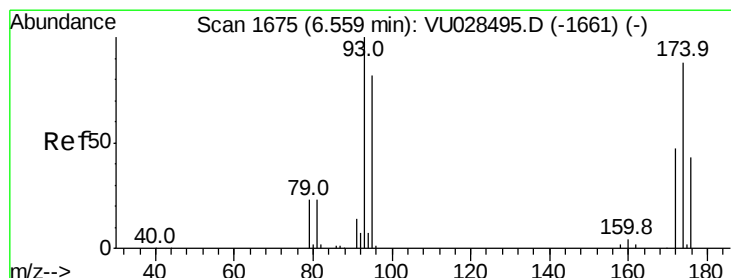
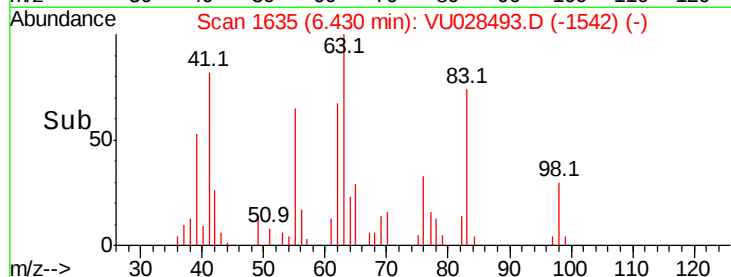
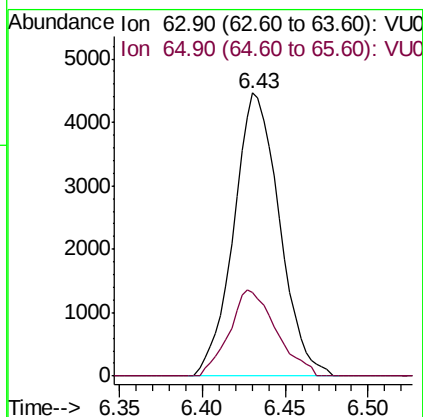
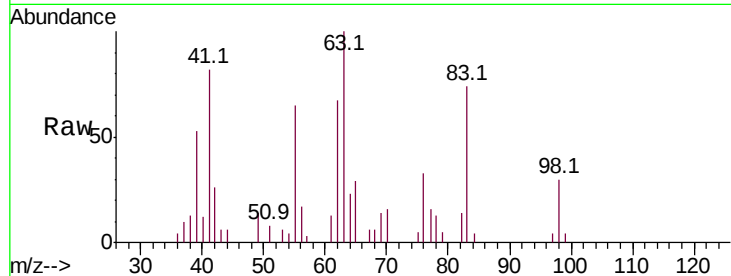
65 29.4 24.2 36.4

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#46

Dibromomethane

Concen: 5.070 ug/l

RT: 6.56 min Scan# 1675

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

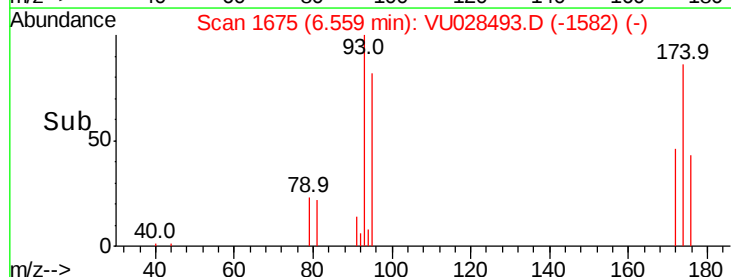
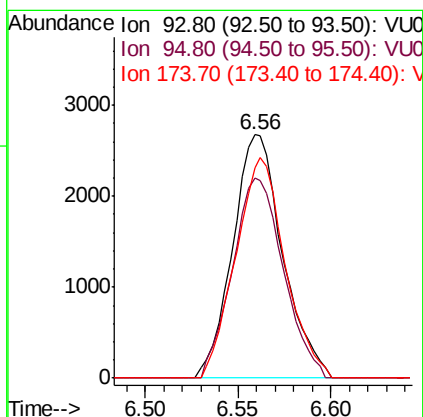
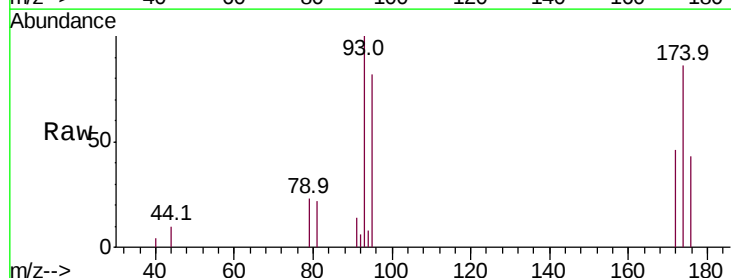
Tgt Ion: 93 Resp: 5004

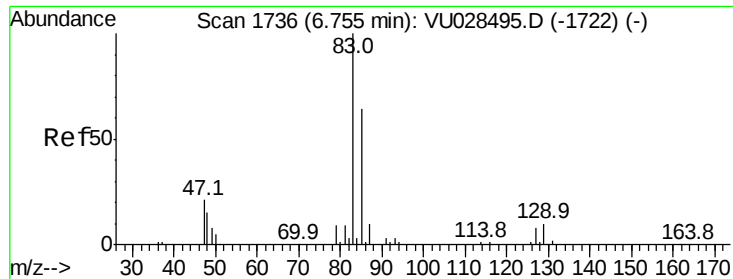
Ion Ratio Lower Upper

93 100

95 83.7 65.4 98.2

174 89.6 72.2 108.4





#47

Bromodichloromethane

Concen: 4.960 ug/l

RT: 6.76 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

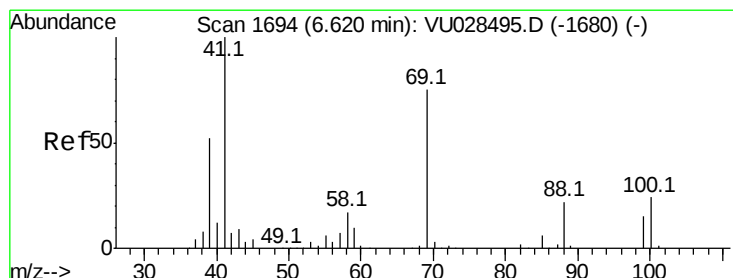
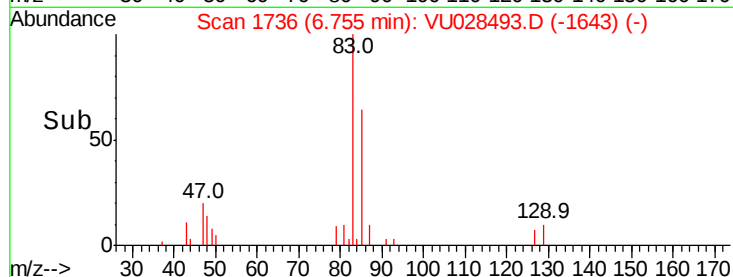
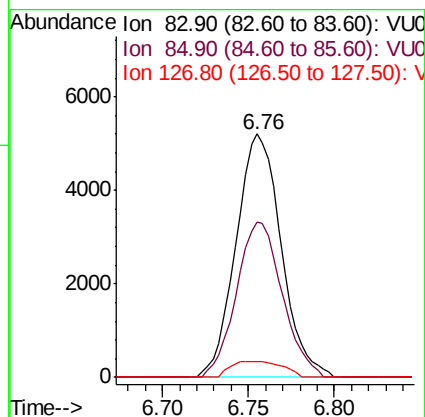
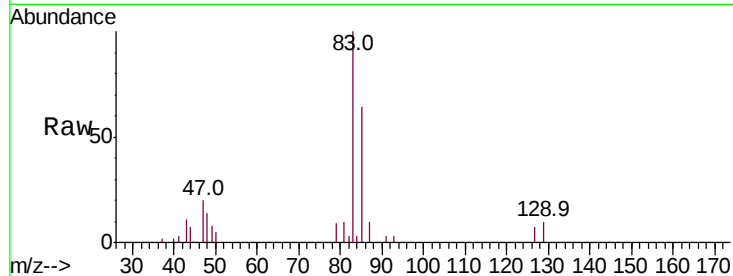
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	9527
Ion Ratio	Lower	Upper	
83	100		
85	63.7	51.5	77.3
127	6.6	6.2	9.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 4.940 ug/l

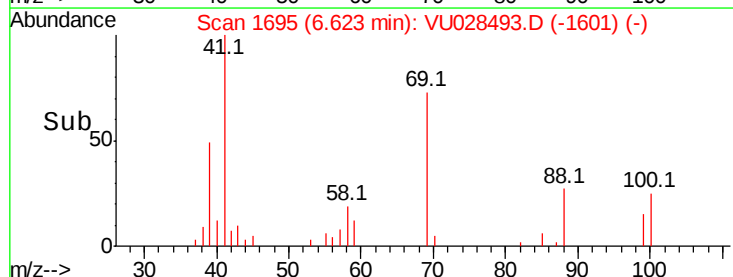
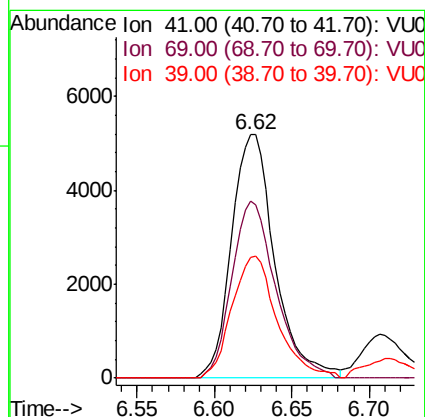
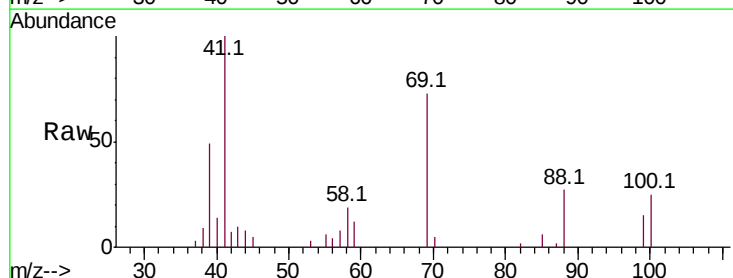
RT: 6.62 min Scan# 1695

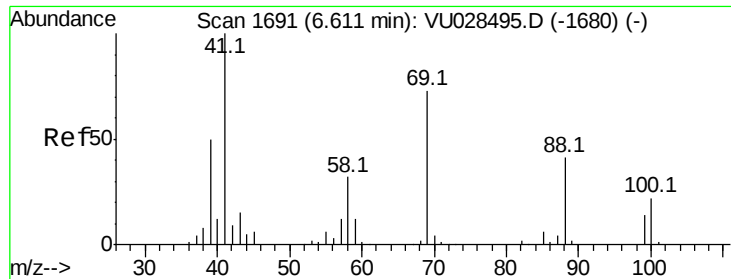
Delta R.T. 0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Tgt Ion:	41	Resp:	10089
Ion Ratio	Lower	Upper	
41	100		
69	73.7	60.4	90.6
39	52.2	41.1	61.7





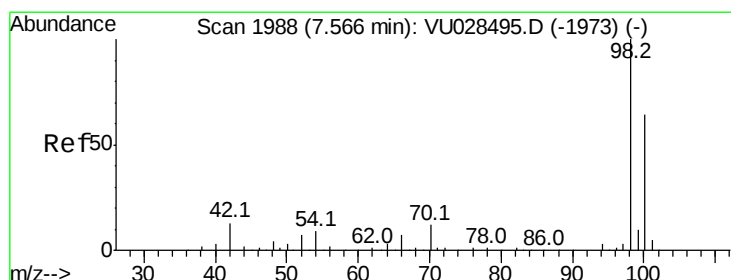
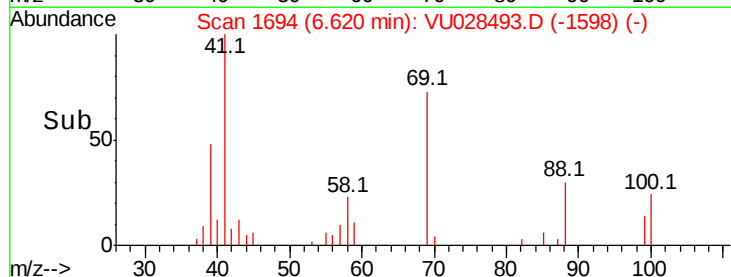
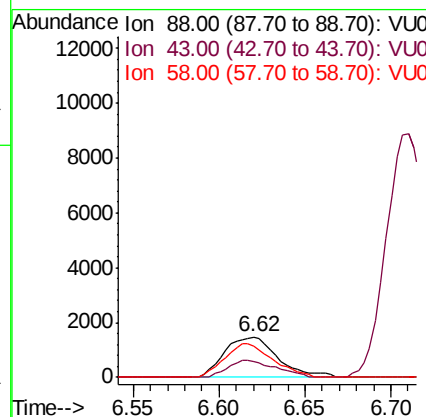
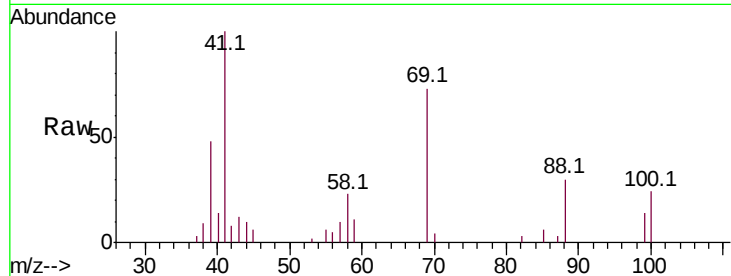
#49
1,4-Dioxane
Concen: 98.677 ug/l
RT: 6.62 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	38.3	30.9	46.3
58	74.7	62.4	93.6

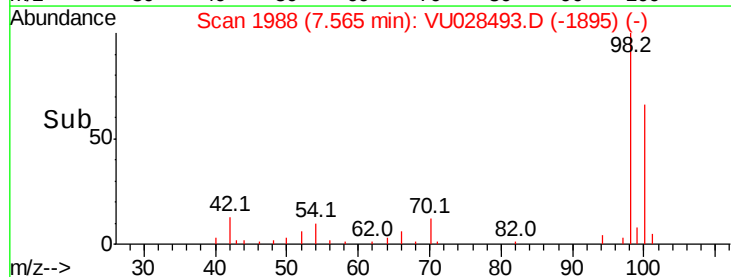
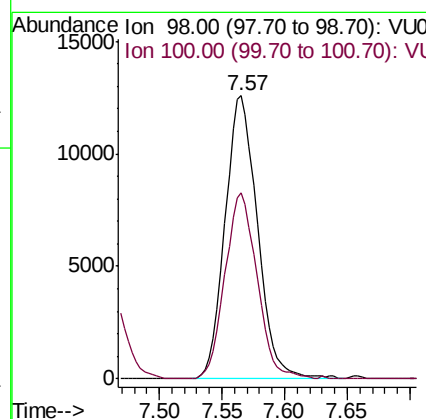
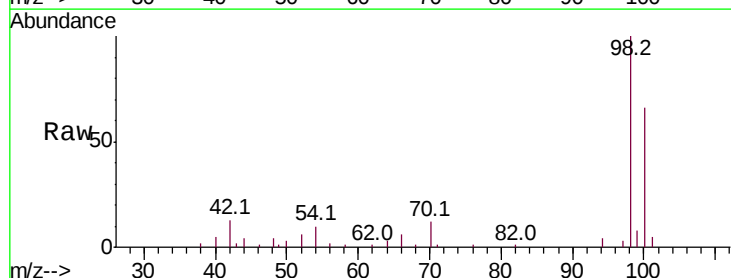
Manual Integrations
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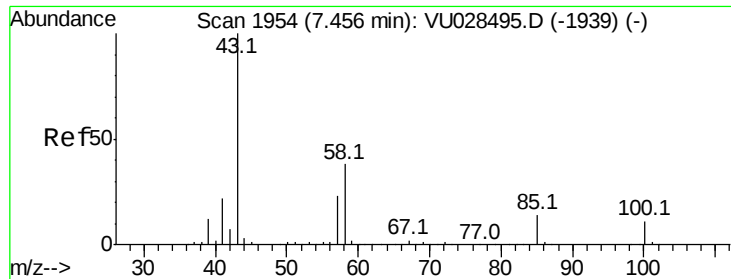
MMDadoda
12/7/2018 10:34:45 AM



#50
Toluene-d8
Concen: 4.948 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.0	76.6





#51

4-Methyl-2-Pentanone

Concen: 25.146 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 65130

Ion Ratio Lower Upper

43 100

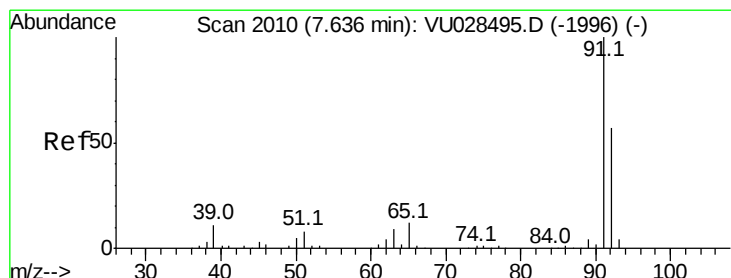
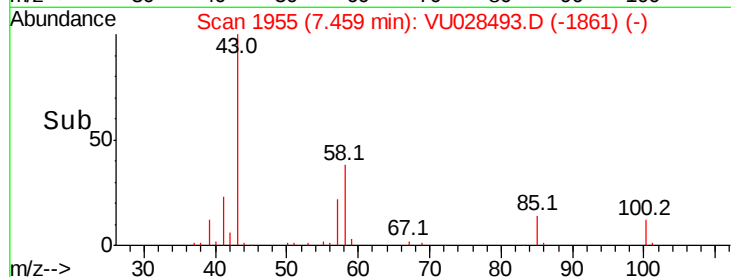
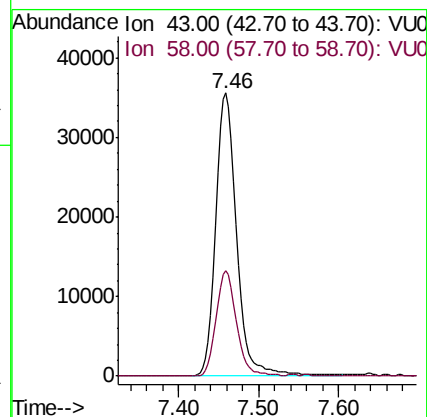
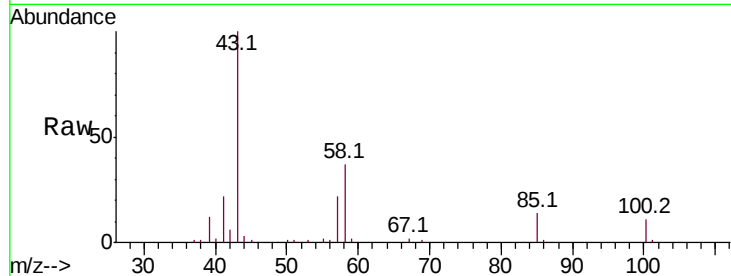
58 36.3 30.2 45.2

Manual Integrations

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#52

Toluene

Concen: 4.914 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028493.D

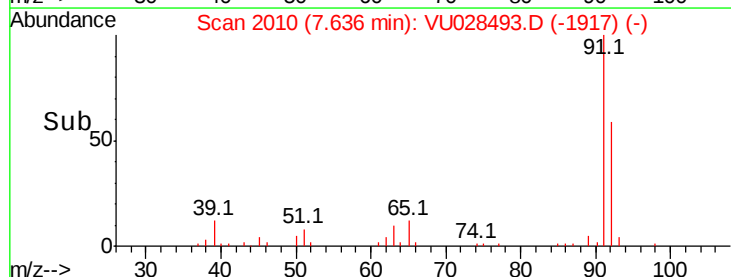
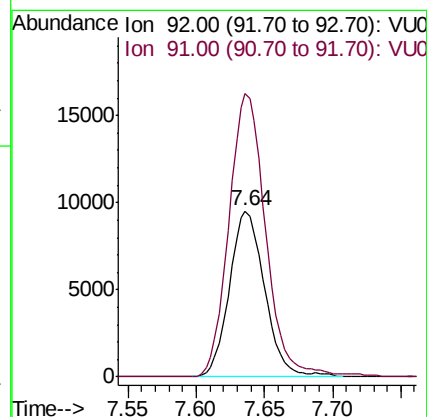
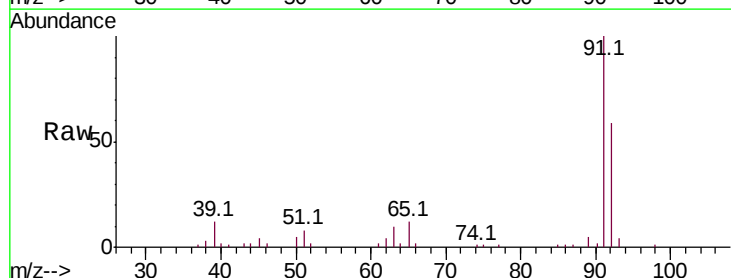
Acq: 06 Dec 2018 11:47

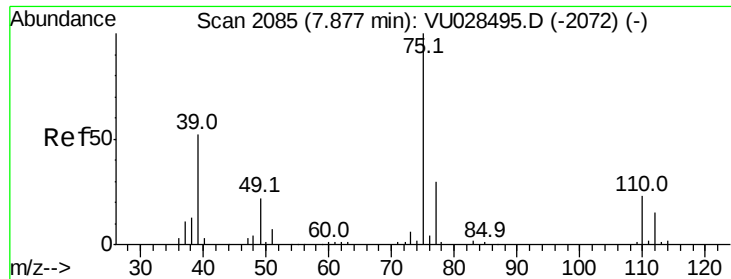
Tgt Ion: 92 Resp: 17108

Ion Ratio Lower Upper

92 100

91 177.2 140.2 210.4





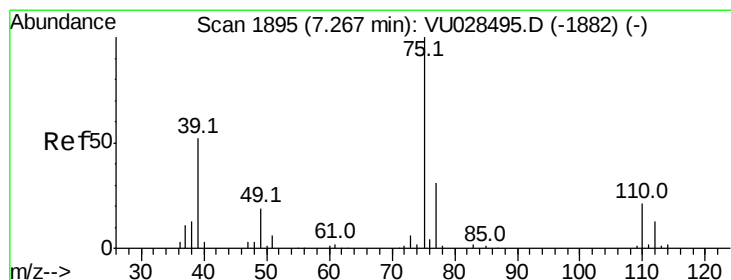
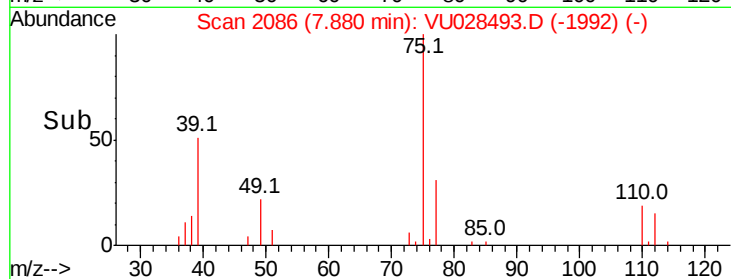
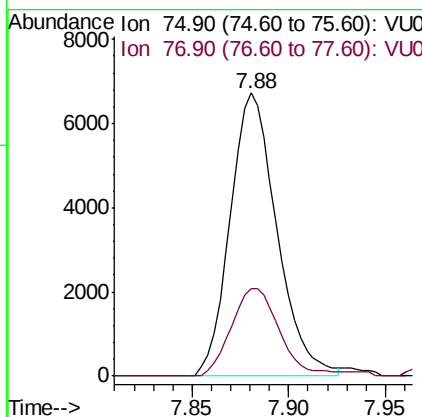
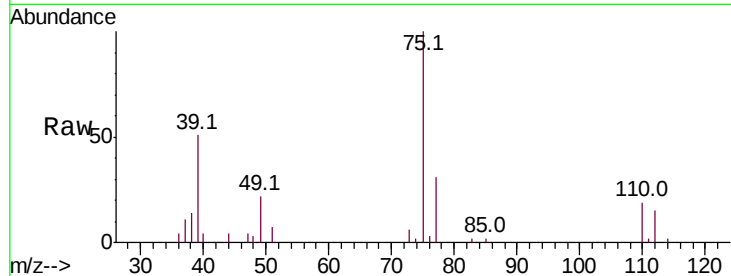
#53
t-1,3-Dichloropropene
Concen: 4.926 ug/l
RT: 7.88 min Scan# 2086
Delta R.T. 0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 75 Resp: 11267
Ion Ratio Lower Upper
75 100
77 30.9 24.2 36.4

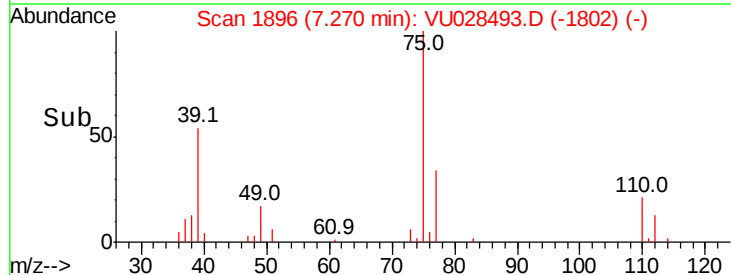
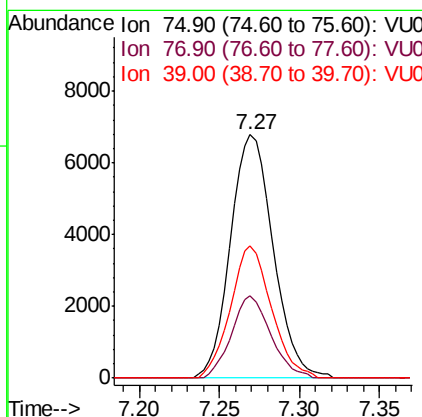
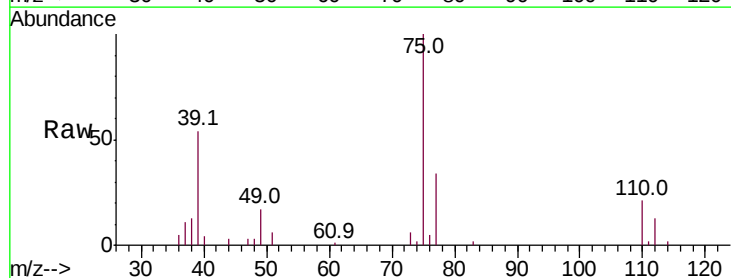
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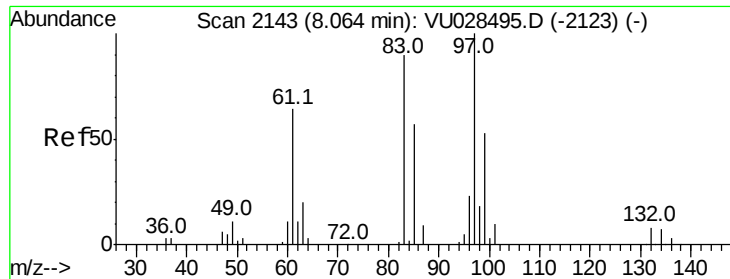
MMDadoda
12/7/2018 10:34:45 AM



#54
cis-1,3-Dichloropropene
Concen: 4.980 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. 0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion: 75 Resp: 12358
Ion Ratio Lower Upper
75 100
77 33.6 25.0 37.4
39 54.2 41.3 61.9





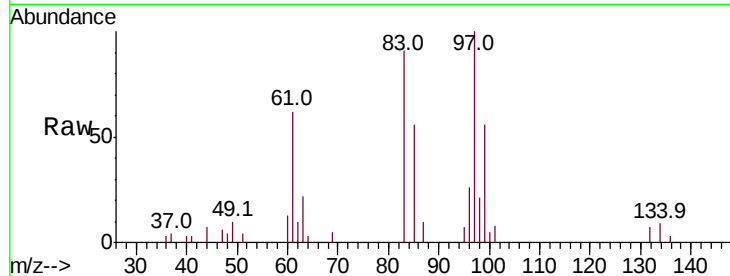
#55
1,1,2-Trichloroethane
Concen: 5.098 ug/l
RT: 8.07 min Scan# 2144
Delta R.T. 0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:	97	Resp:	7015
Ion	Ratio	Lower	Upper
97	100		
83	91.5	72.4	108.6
85	56.0	46.0	69.0
99	56.4	47.4	71.2

Manual Integrations
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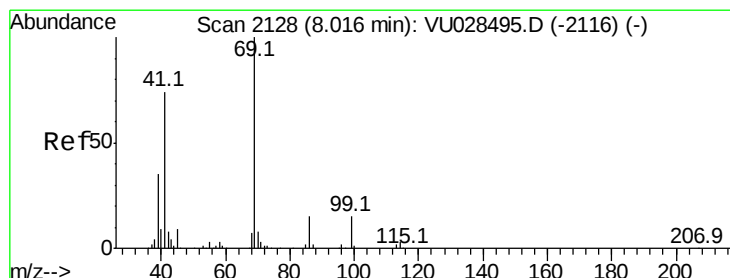
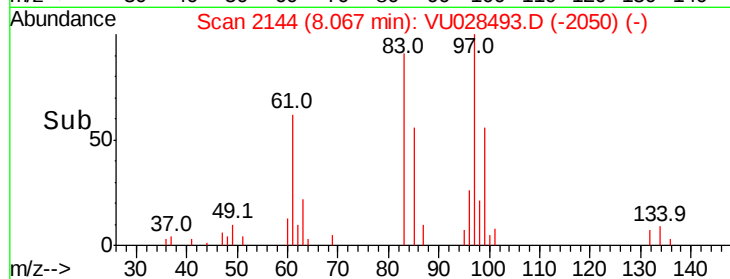
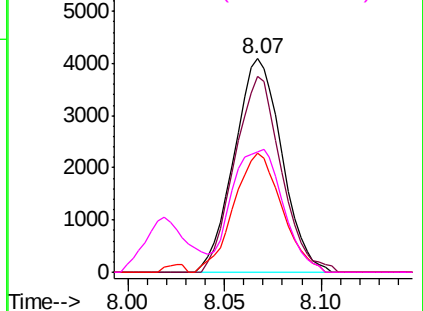
Abundance

Ion 96.90 (96.60 to 97.60): VU0

Ion 82.90 (82.60 to 83.60): VU0

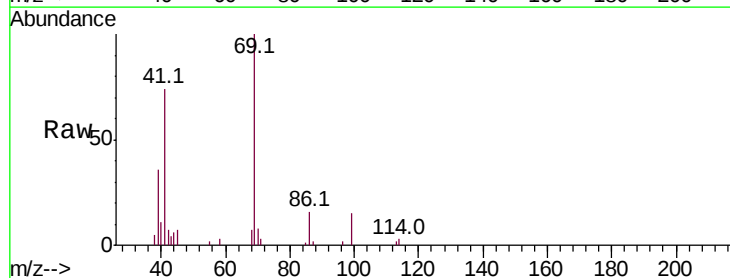
Ion 84.90 (84.60 to 85.60): VU0

Ion 98.90 (98.60 to 99.60): VU0



#56
Ethyl methacrylate
Concen: 4.653 ug/l
RT: 8.02 min Scan# 2129
Delta R.T. 0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion:	69	Resp:	10966
Ion	Ratio	Lower	Upper
69	100		
41	79.0	59.1	88.7
39	38.2	28.4	42.6

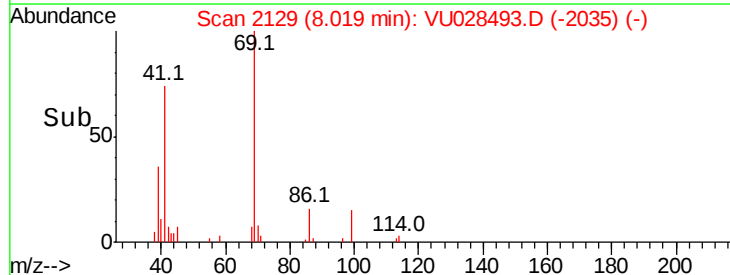
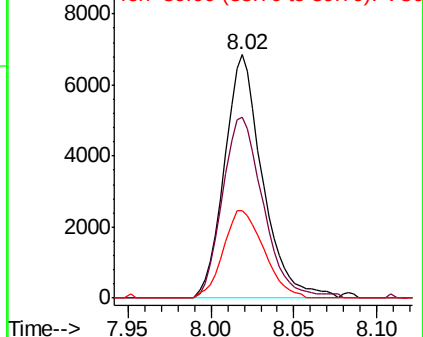


Abundance

Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 4.912 ug/l

RT: 8.24 min Scan# 2199

Delta R.T. 0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 12547

Ion Ratio Lower Upper

76 100

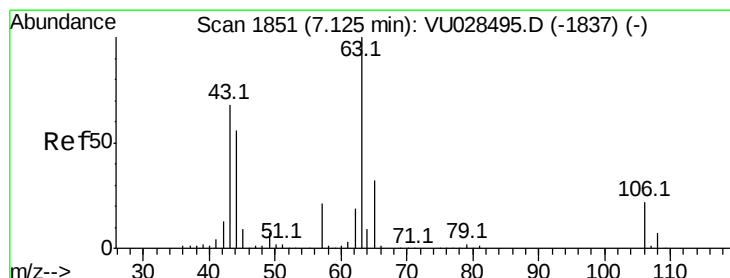
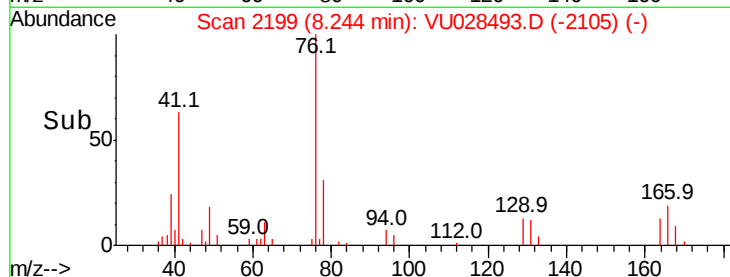
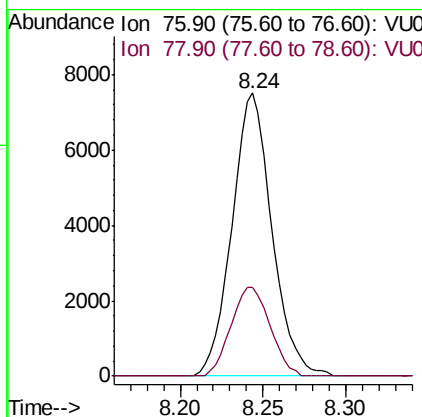
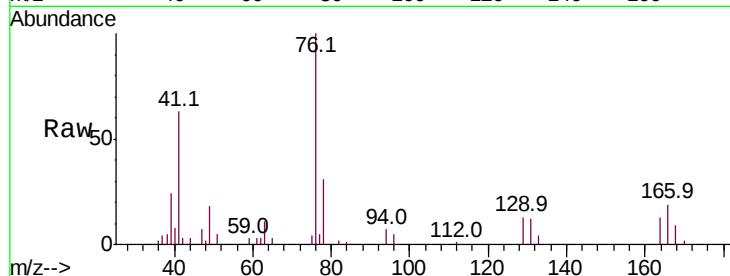
78 30.6 25.2 37.8

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 23.644 ug/l

RT: 7.13 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VU028493.D

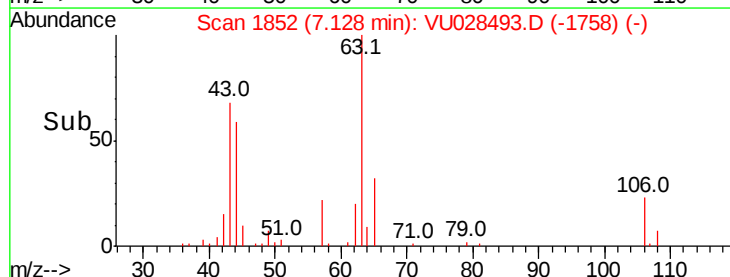
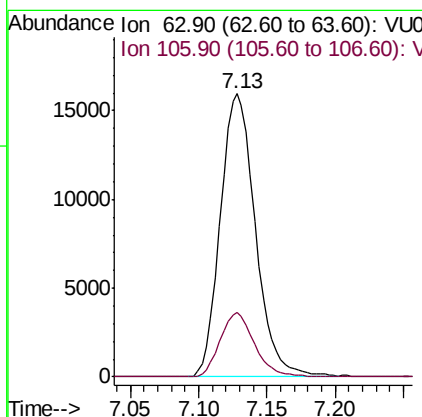
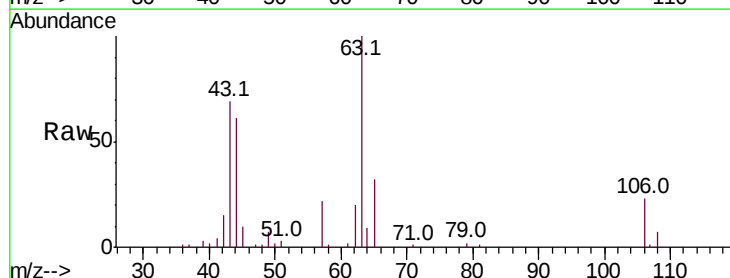
Acq: 06 Dec 2018 11:47

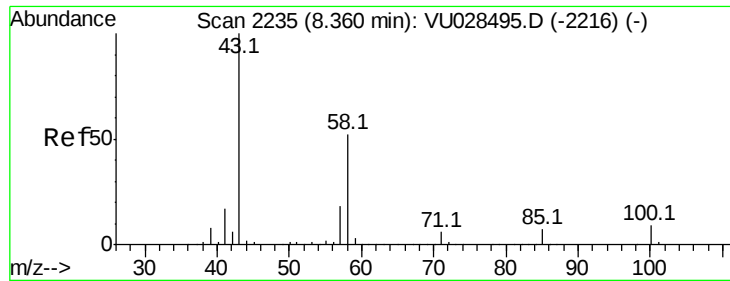
Tgt Ion: 63 Resp: 28539

Ion Ratio Lower Upper

63 100

106 22.3 17.8 26.6





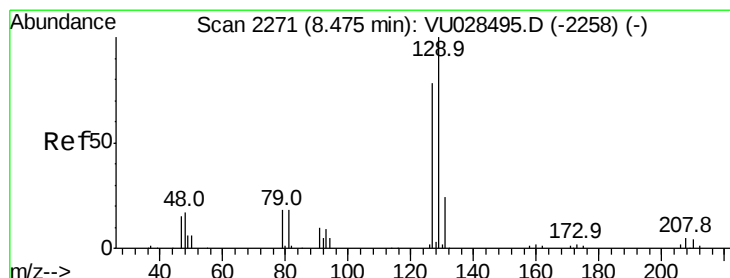
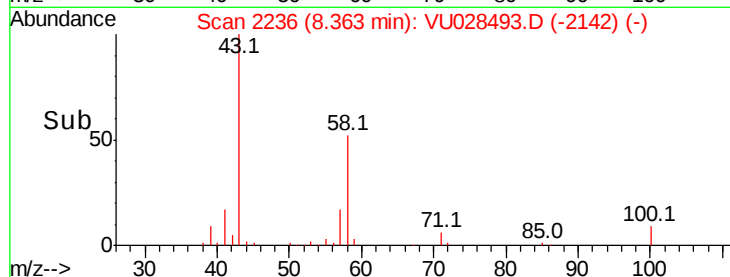
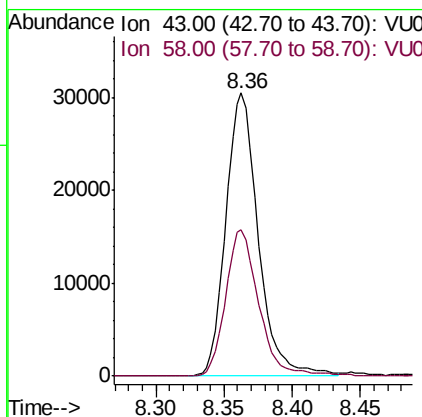
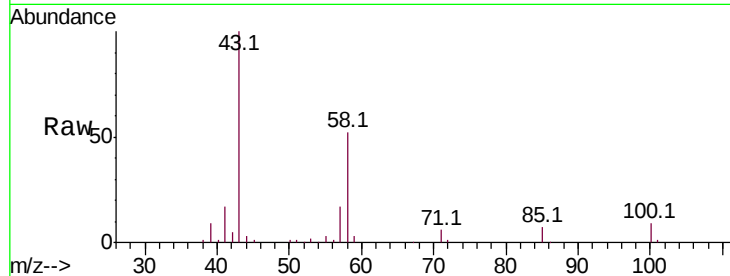
#59
2-Hexanone
Concen: 24.573 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 50448
Ion Ratio Lower Upper
43 100
58 52.5 25.9 77.6

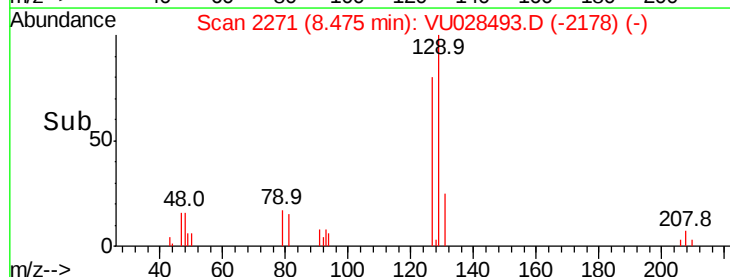
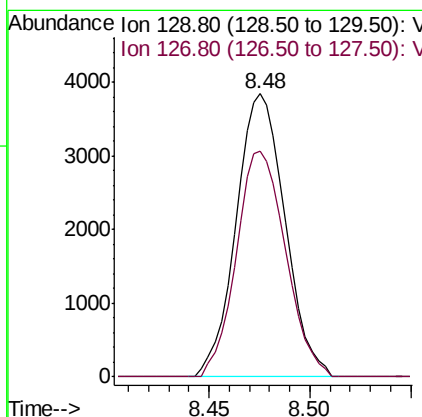
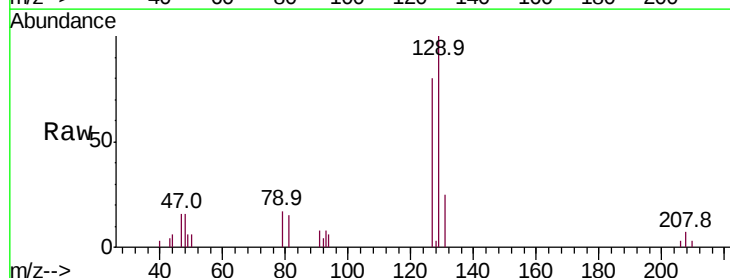
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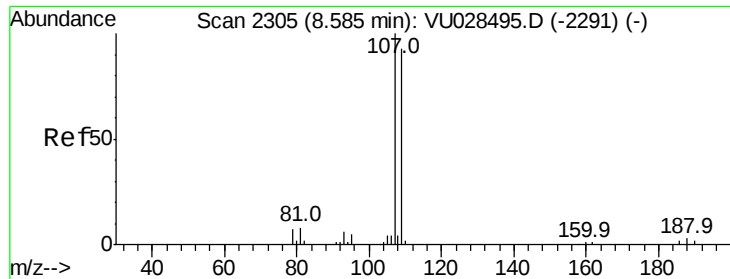
MMDadoda
12/7/2018 10:34:45 AM



#60
Dibromochloromethane
Concen: 4.841 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion: 129 Resp: 6522
Ion Ratio Lower Upper
129 100
127 80.3 39.1 117.3





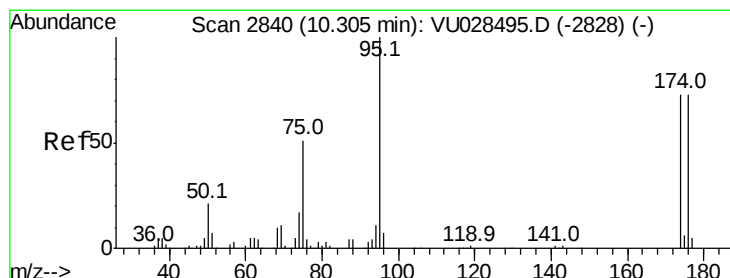
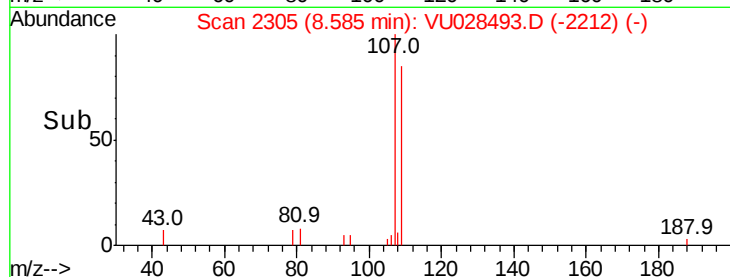
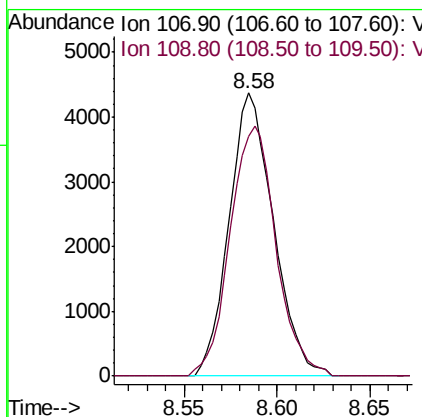
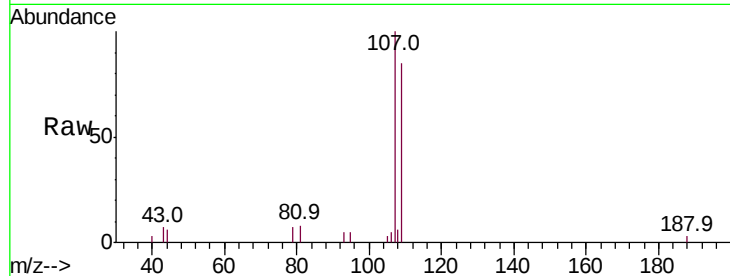
#61
 1,2-Dibromoethane
 Concen: 5.043 ug/l
 RT: 8.58 min Scan# 2305
 Delta R.T. -0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:107 Resp: 7278
 Ion Ratio Lower Upper
 107 100
 109 91.5 74.5 111.7

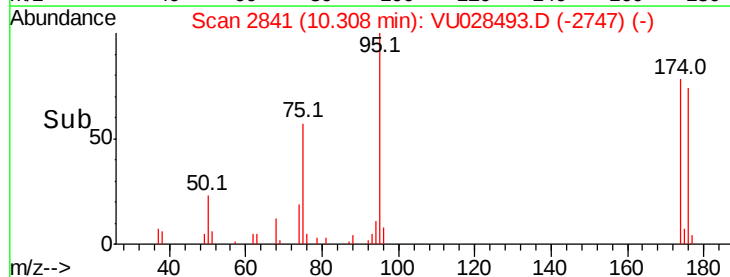
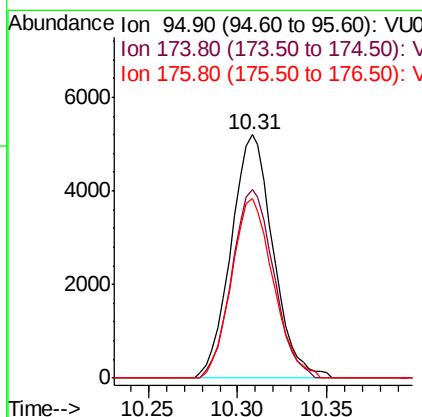
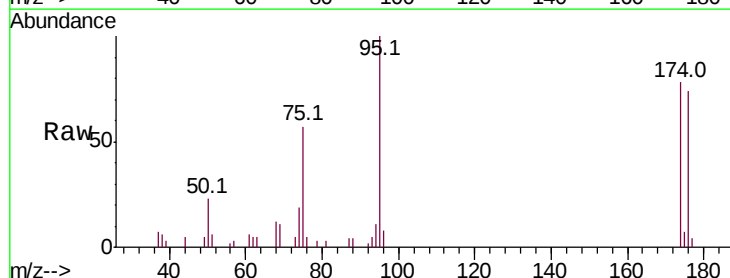
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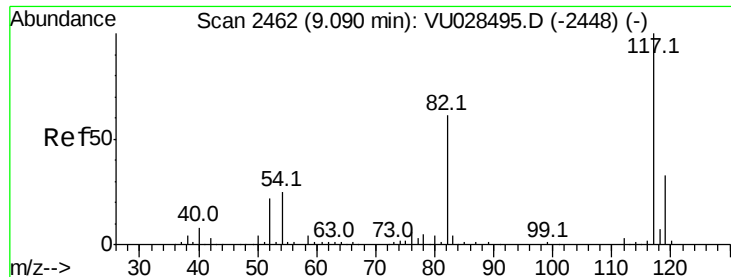
MMDadoda
 12/7/2018 10:34:45 AM



#62
 4-Bromofluorobenzene
 Concen: 4.980 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Tgt Ion: 95 Resp: 8504
 Ion Ratio Lower Upper
 95 100
 174 76.9 0.0 150.4
 176 73.5 0.0 145.2





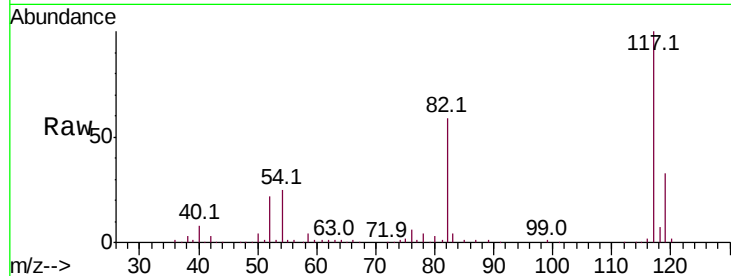
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.3	48.9	73.3
119	32.8	26.2	39.4

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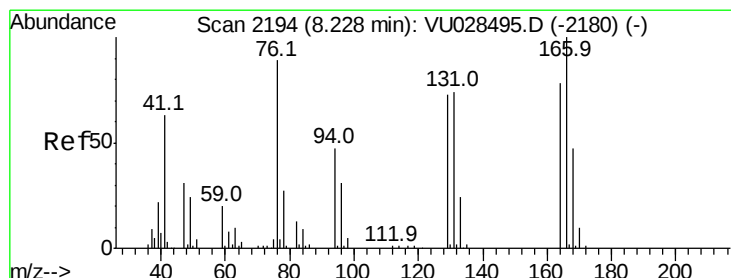
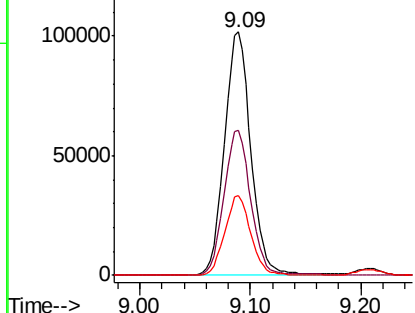
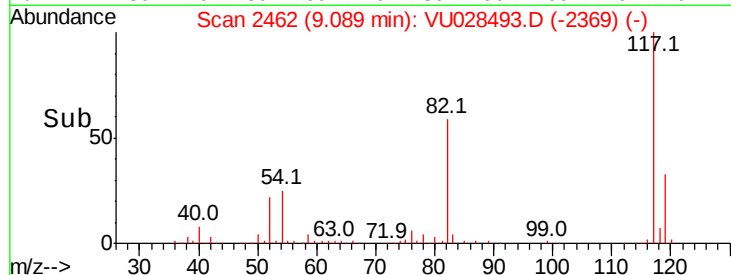


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 5.059 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.9	101.9	152.9
129	99.7	74.9	112.3
131	92.1	75.4	113.0

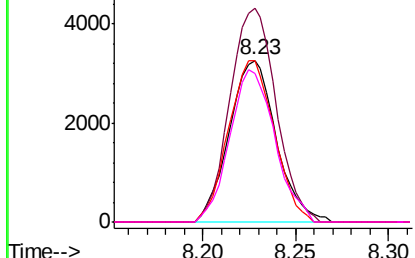
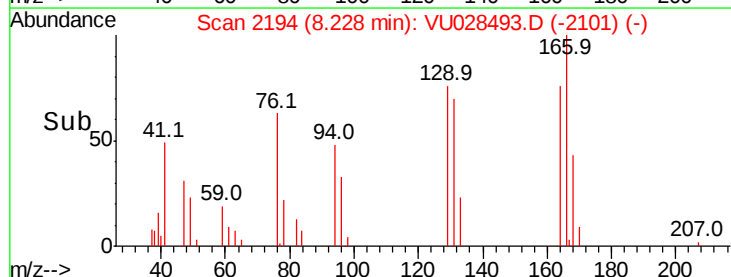
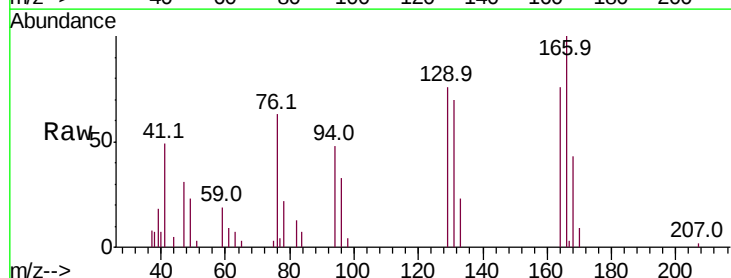
Abundance

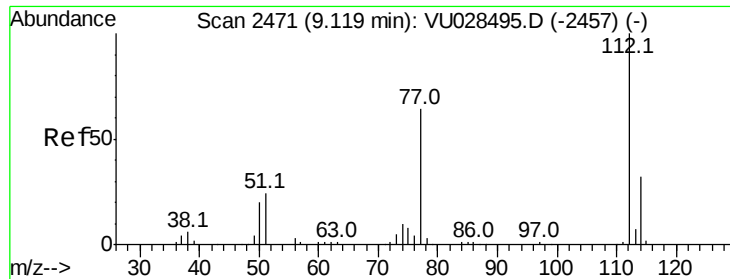
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





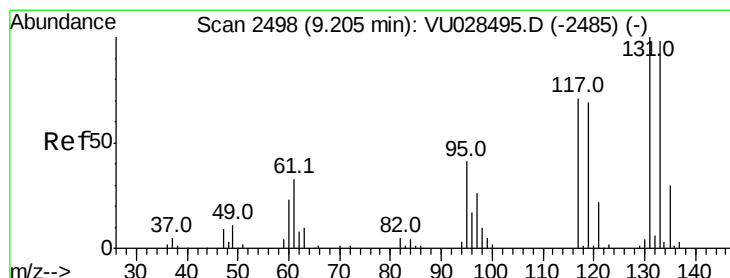
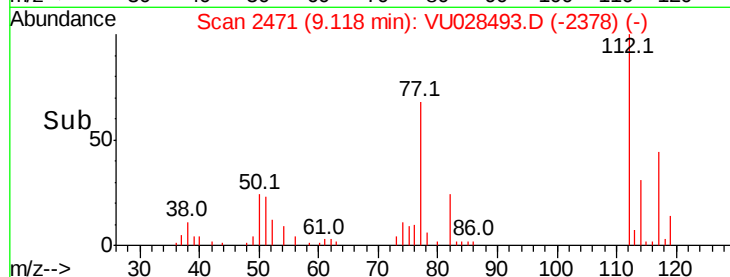
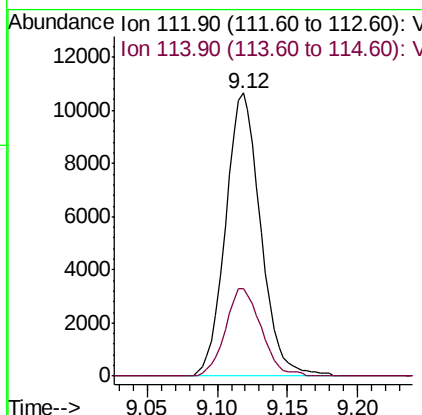
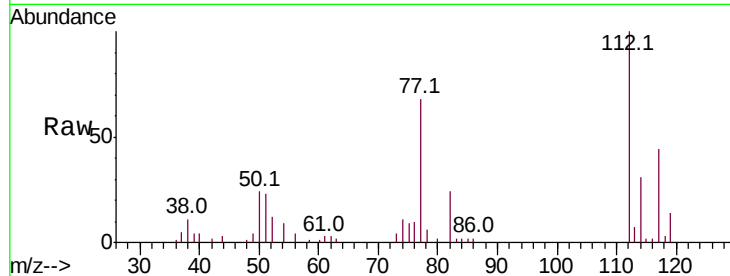
#65
Chlorobenzene
Concen: 5.116 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 18464
Ion Ratio Lower Upper
112 100
114 31.1 25.3 37.9

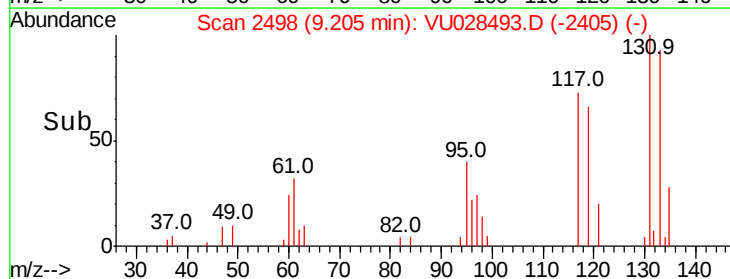
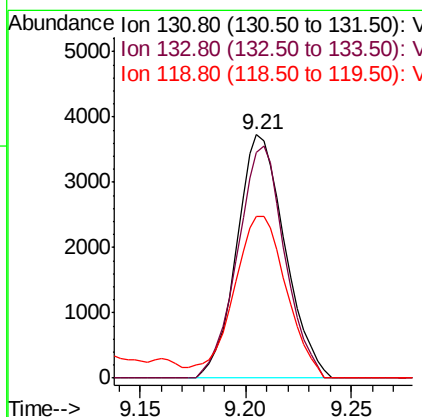
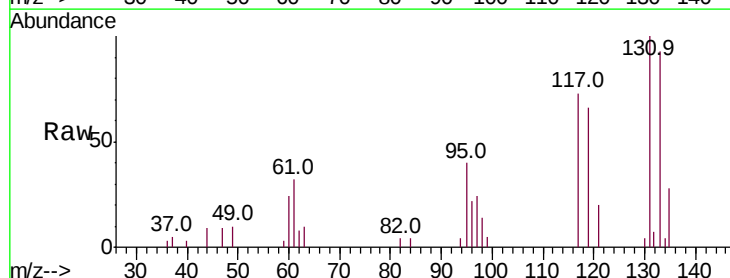
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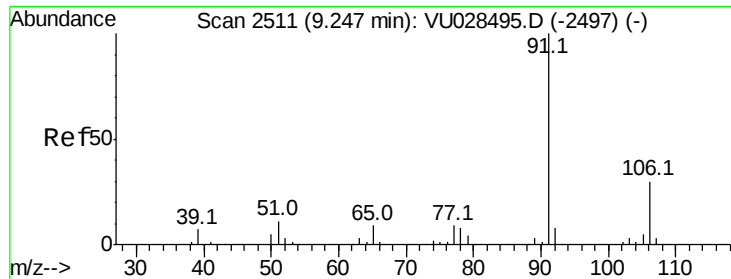
MMDadoda
12/7/2018 10:34:45 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 5.127 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion:131 Resp: 5909
Ion Ratio Lower Upper
131 100
133 93.4 48.0 144.0
119 72.7 34.6 103.9





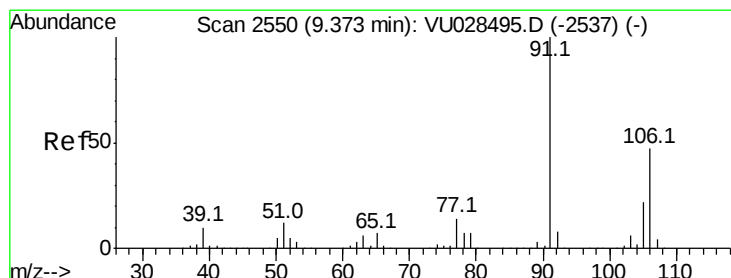
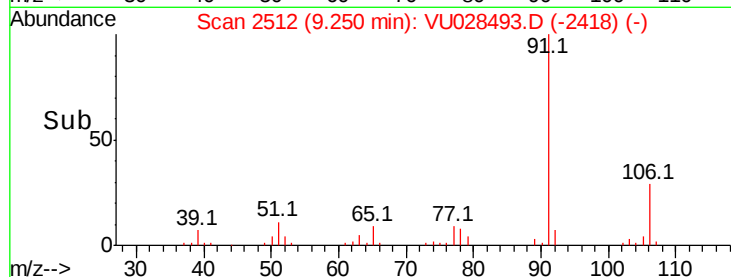
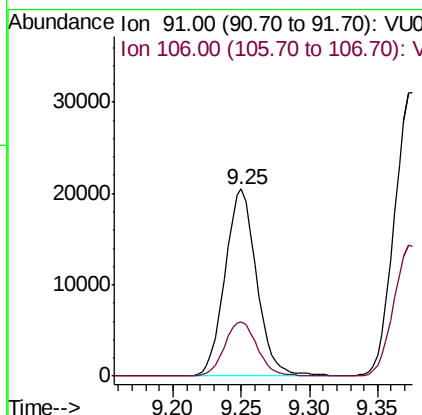
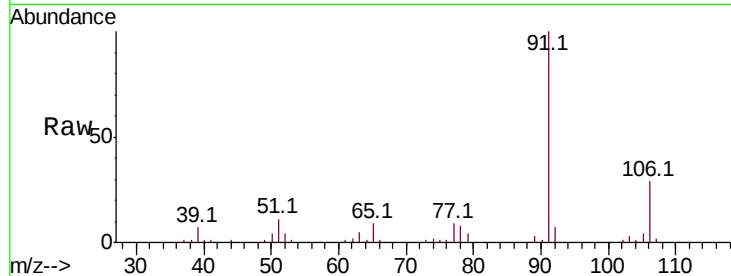
#67
Ethyl Benzene
Concen: 4.994 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 33134
Ion Ratio Lower Upper
91 100
106 29.2 24.1 36.1

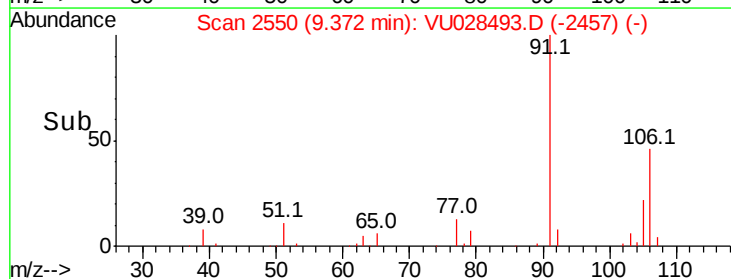
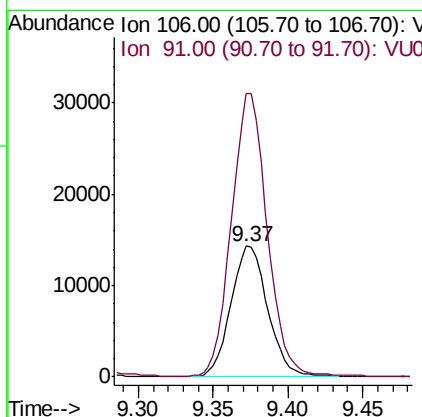
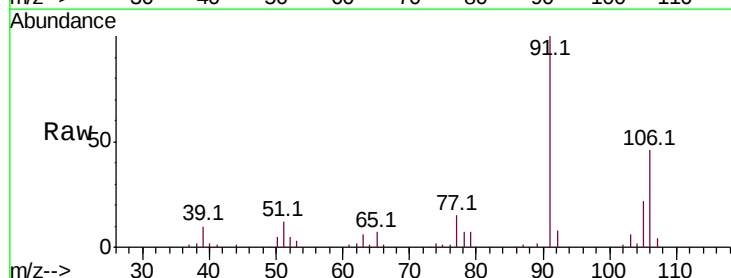
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12/7/2018 10:34:45 AM



#68
m/p-Xylenes
Concen: 10.157 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion: 106 Resp: 24522
Ion Ratio Lower Upper
106 100
91 210.8 167.4 251.0





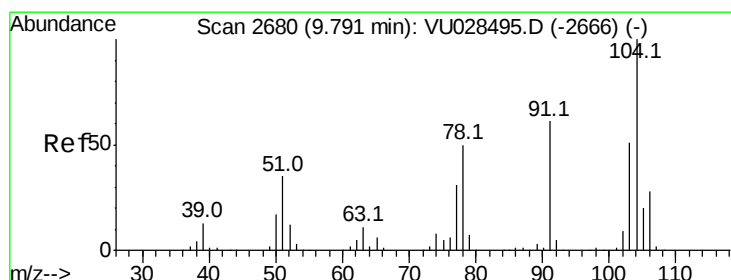
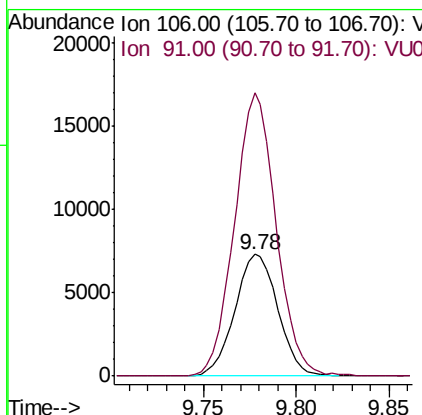
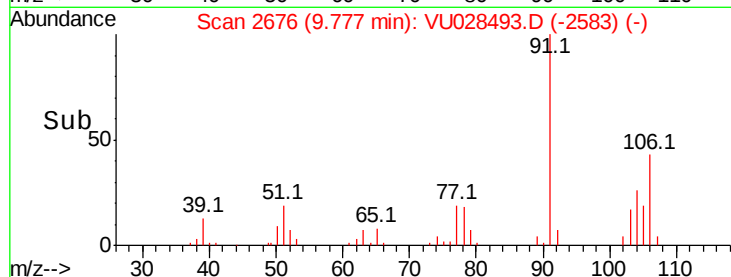
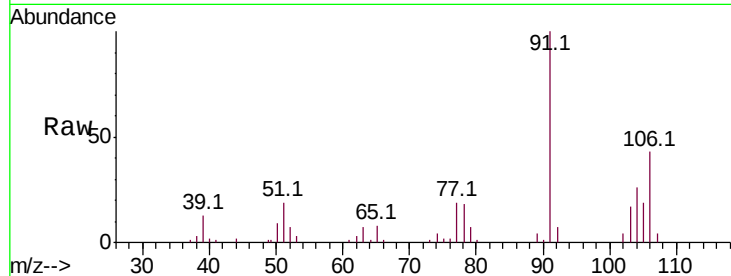
#69
o-Xylene
Concen: 5.008 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 11751
Ion Ratio Lower Upper
106 100
91 225.6 111.3 334.0

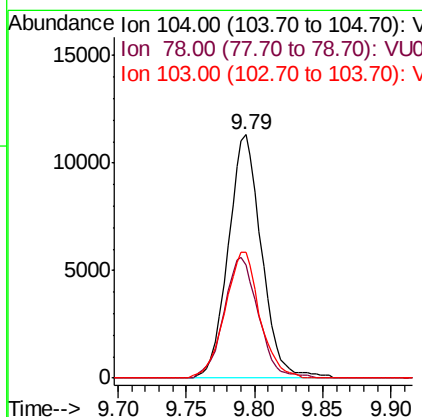
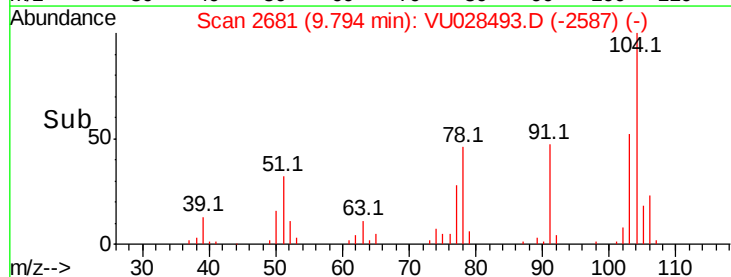
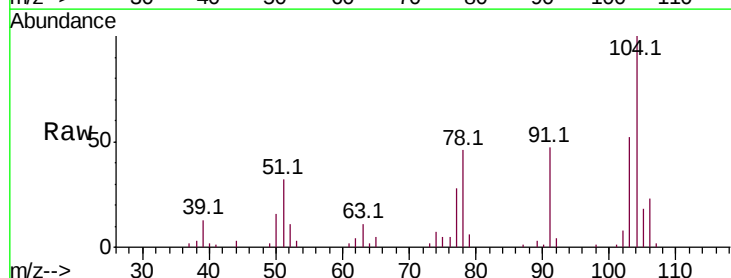
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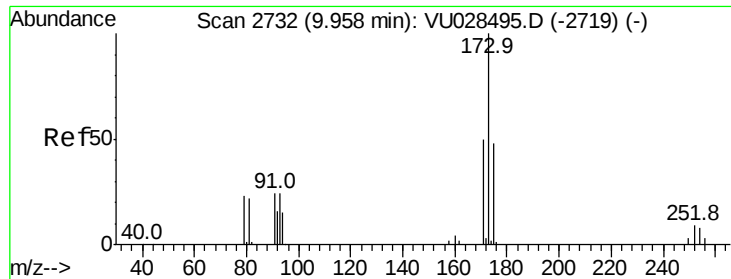
MMDadoda
12/7/2018 10:34:45 AM



#70
Styrene
Concen: 4.942 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion:104 Resp: 19191
Ion Ratio Lower Upper
104 100
78 51.4 43.0 64.6
103 53.9 44.2 66.4





#71

Bromoform

Concen: 4.765 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

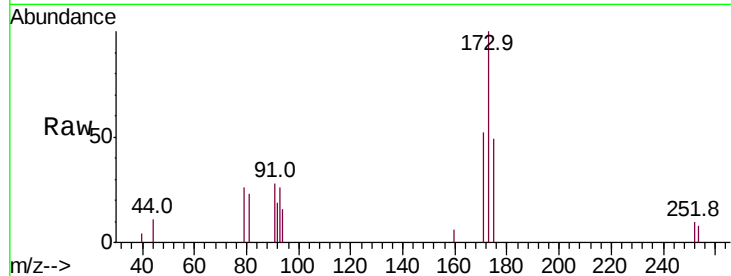
ClientSampleId :

VSTDIC005

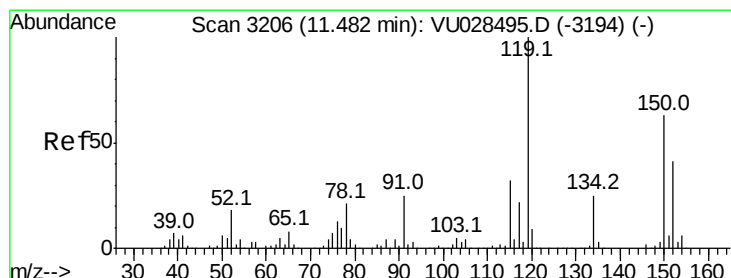
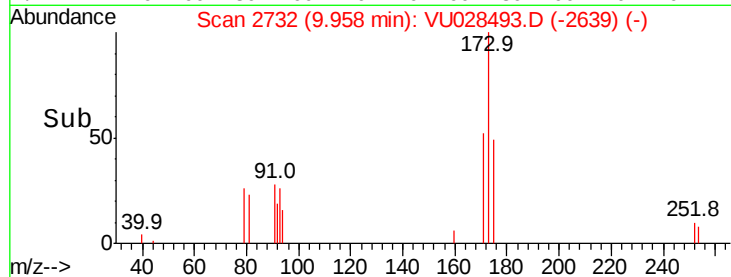
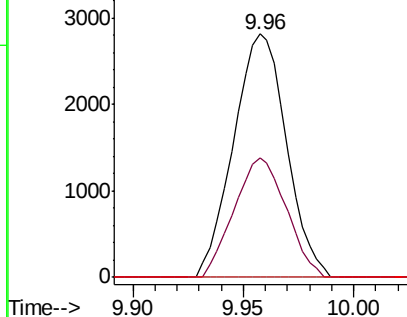
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	23.9	71.8
254	0.0	0.0	0.0

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

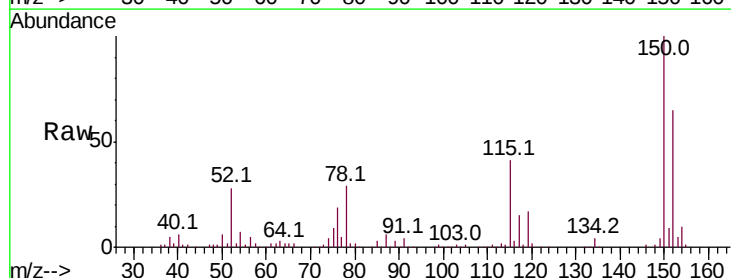
RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

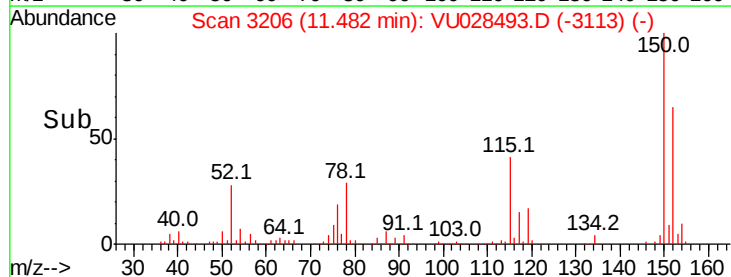
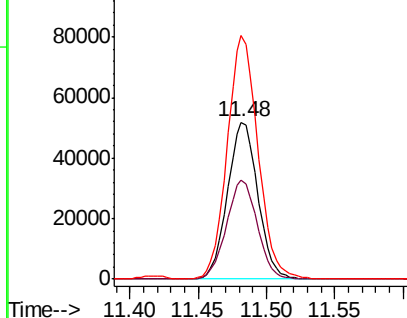
Lab File: VU028493.D

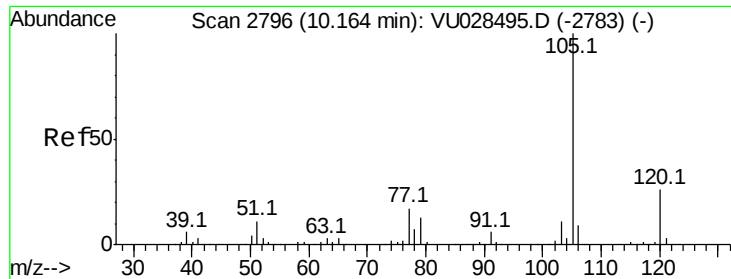
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.0	42.7	128.1
150	157.1	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: 5.122 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 31491

Ion Ratio Lower Upper

105 100

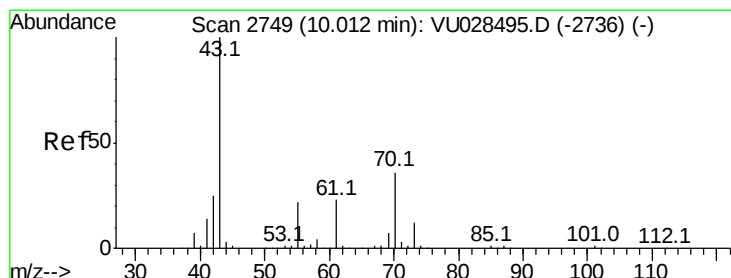
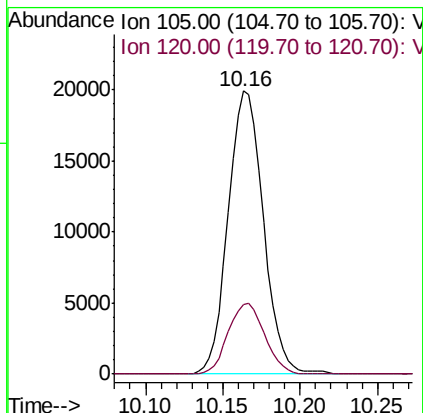
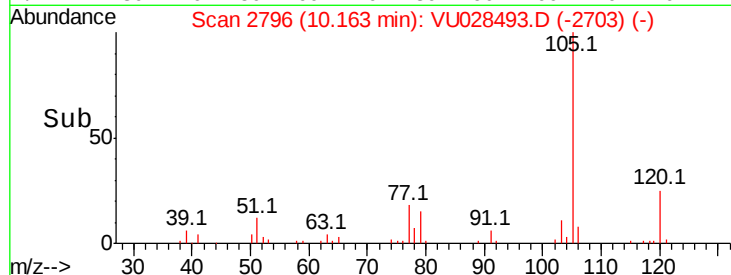
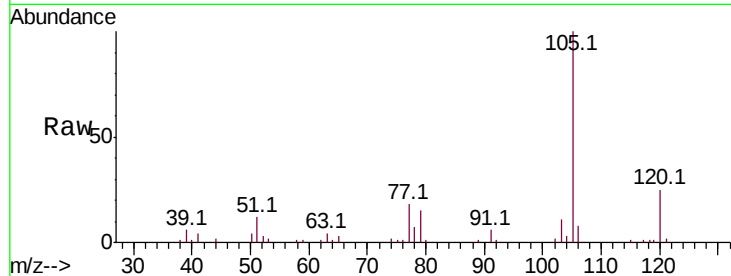
120 25.7 12.9 38.6

Manual Integrations

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12/7/2018 10:34:45 AM



#74

N-ethyl acetate

Concen: 4.900 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Tgt Ion: 43 Resp: 17377

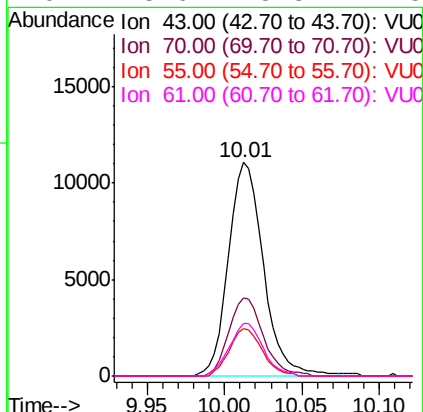
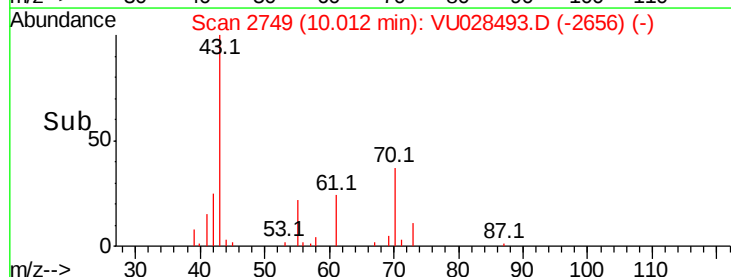
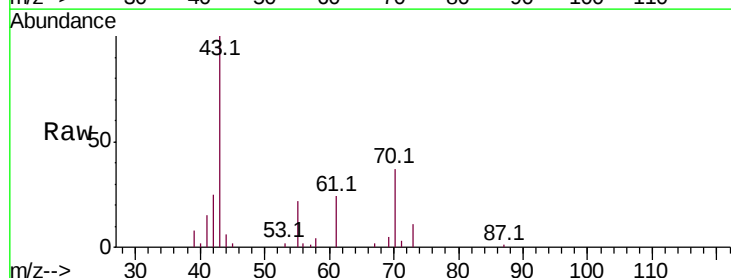
Ion Ratio Lower Upper

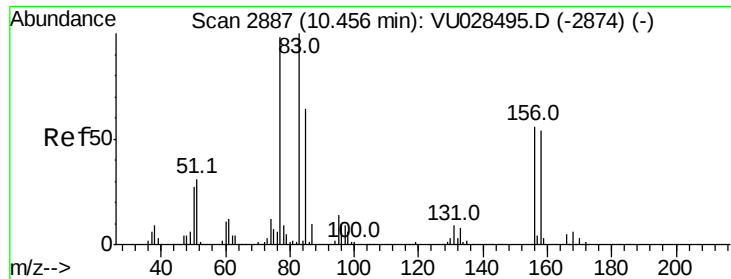
43 100

70 35.9 29.3 43.9

55 20.8 18.0 27.0

61 23.6 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 5.238 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

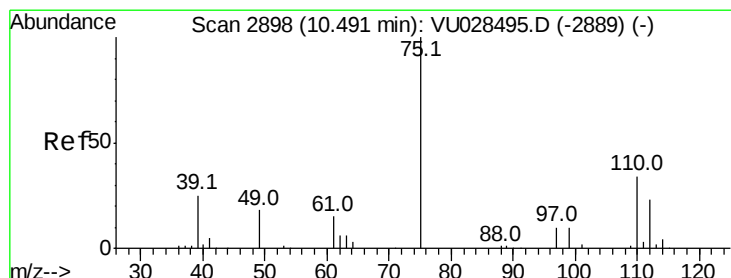
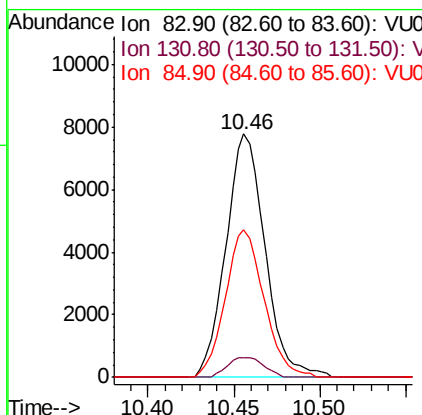
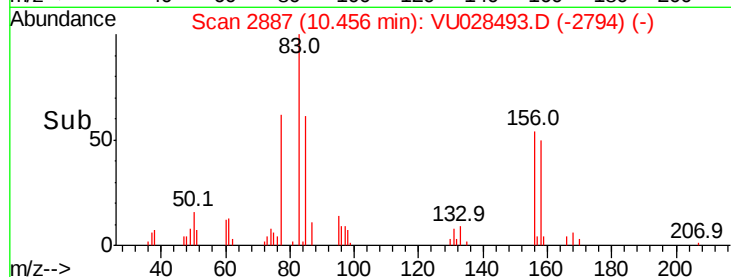
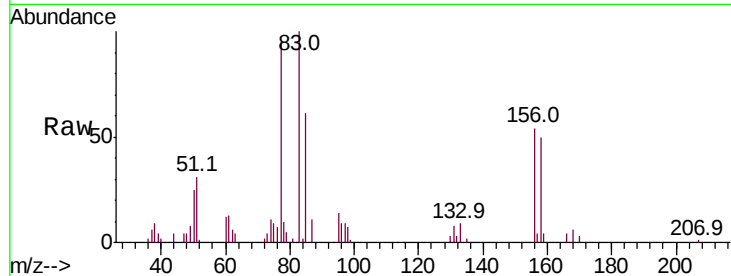
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	12371
Ion Ratio	Lower	Upper	
83	100		
131	7.5	4.2	12.4
85	59.7	31.8	95.4

Manual Integrations
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12/7/2018 10:34:45 AM



#76

1,2,3-Trichloropropane

Concen: 4.468 ug/l m

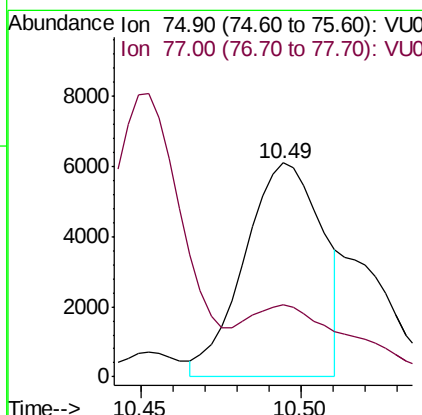
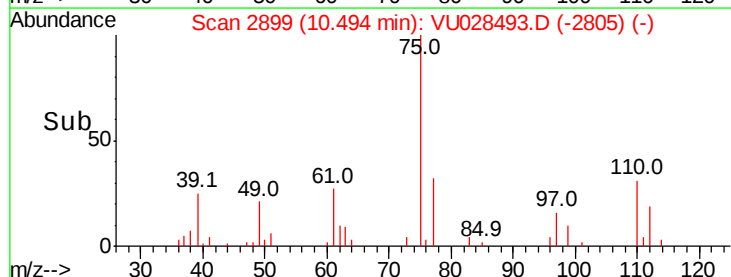
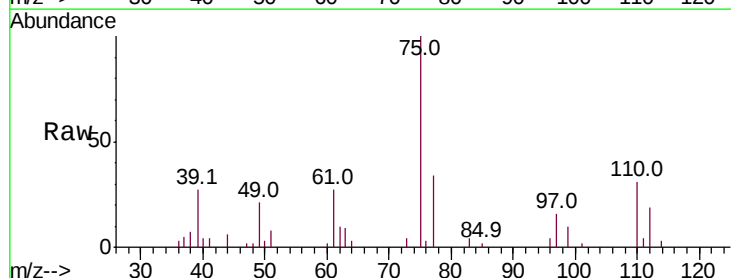
RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Tgt Ion:	75	Resp:	10327
Ion Ratio	Lower	Upper	
75	100		
77	45.4	20.8	62.4





#77

Bromobenzene

Concen: 5.140 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

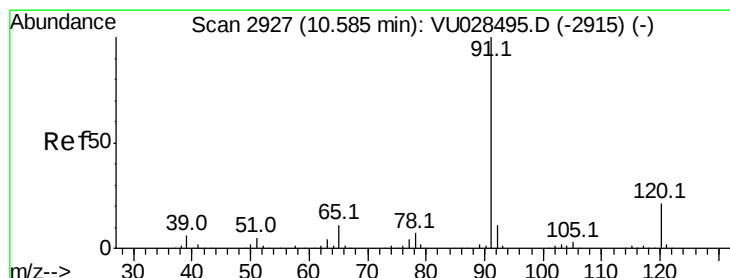
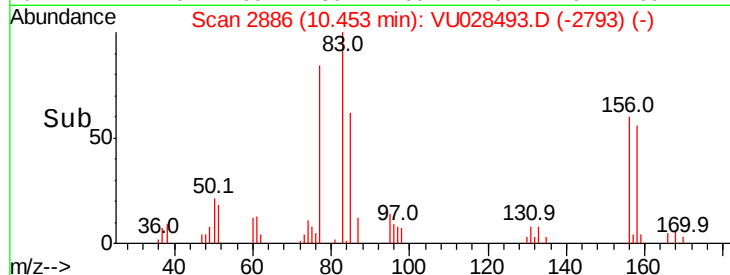
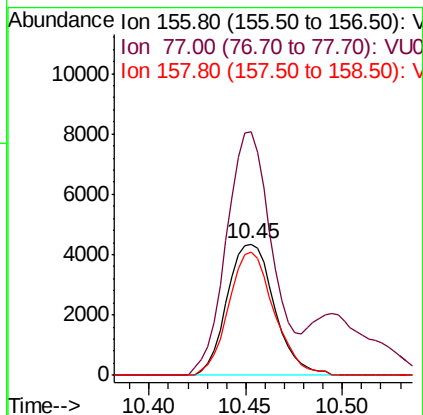
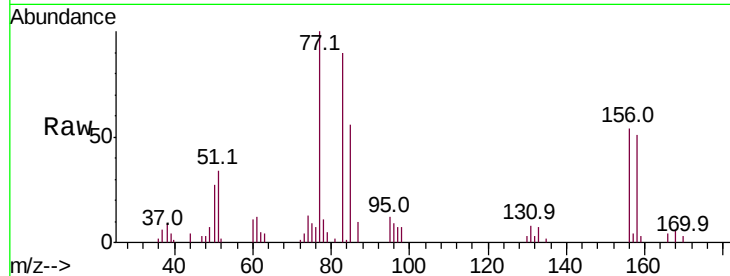
ClientSampleId :

VSTDIC005

Tot Ion:156 Resp: 7391
 Ion Ratio Lower Upper
 156 100
 77 180.3 92.4 277.2
 158 90.5 48.4 145.3

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#78

n-propylbenzene

Concen: 5.061 ug/l

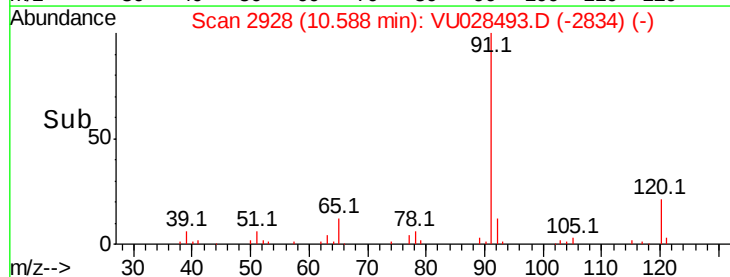
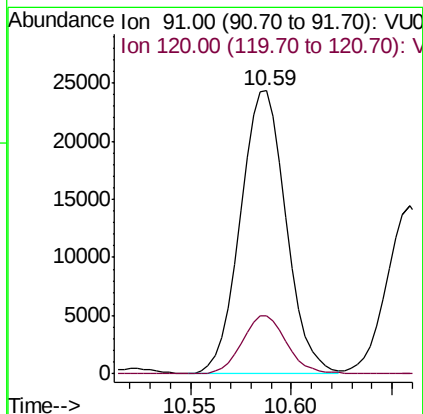
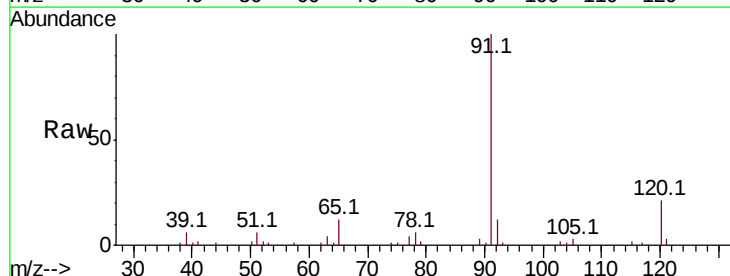
RT: 10.59 min Scan# 2928

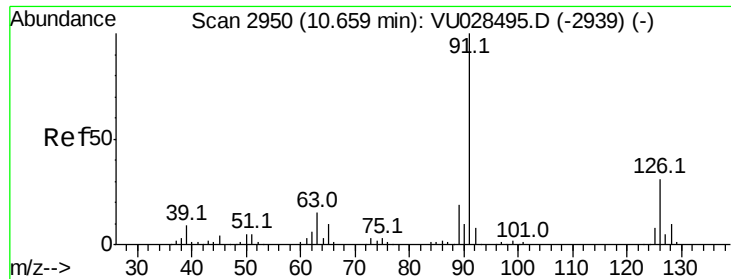
Delta R.T. 0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Tgt Ion: 91 Resp: 38664
 Ion Ratio Lower Upper
 91 100
 120 20.0 10.6 31.8





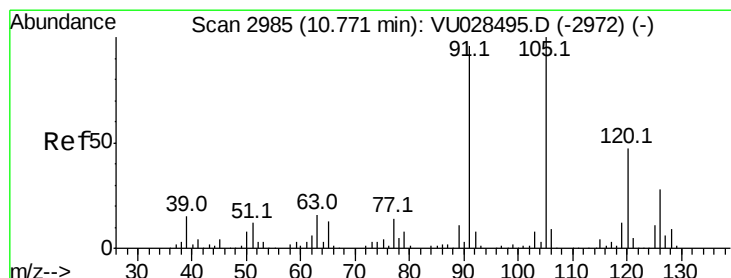
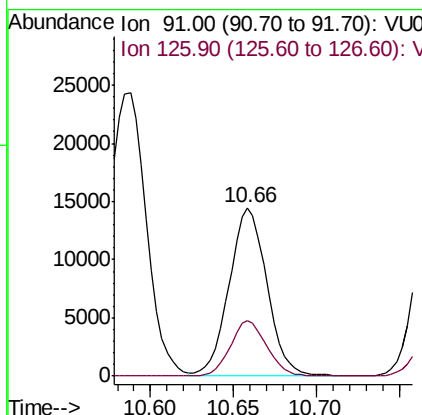
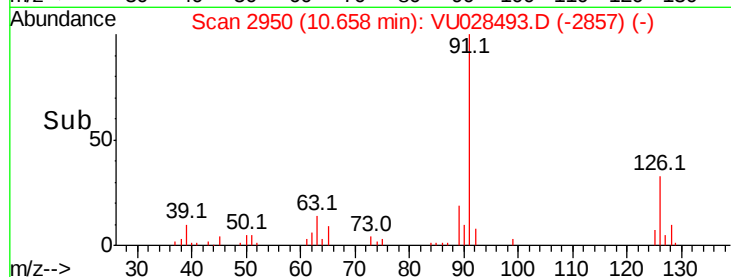
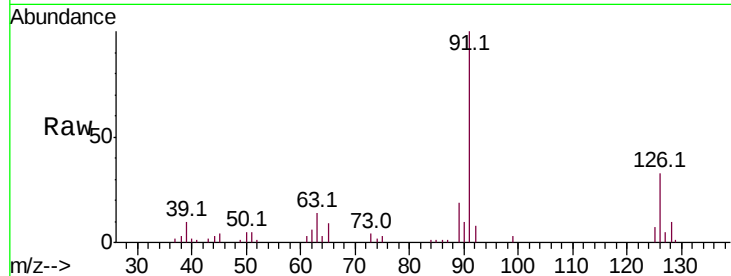
#79
 2-Chlorotoluene
 Concen: 5.232 ug/l
 RT: 10.66 min Scan# 2950
 Delta R.T. -0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion: 91 Resp: 23025
 Ion Ratio Lower Upper
 91 100
 126 31.3 15.6 46.8

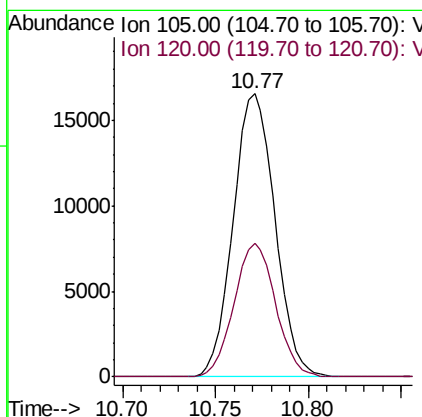
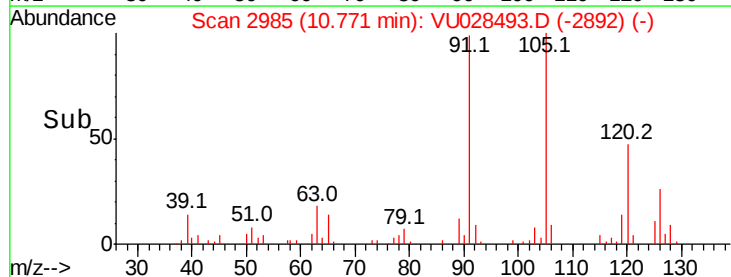
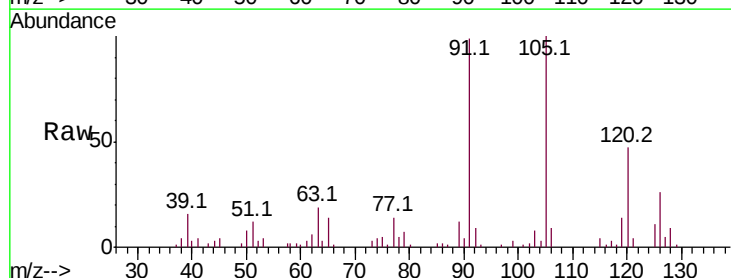
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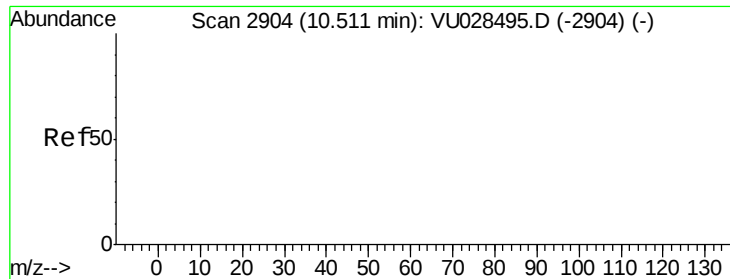
MMDadoda
 12/7/2018 10:34:45 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 5.081 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. -0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Tgt Ion: 105 Resp: 25859
 Ion Ratio Lower Upper
 105 100
 120 46.9 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 3.482 ug/l m

RT: 10.51 min Scan# 2904

Delta R.T. -0.00 min

Lab File: VU028493.D

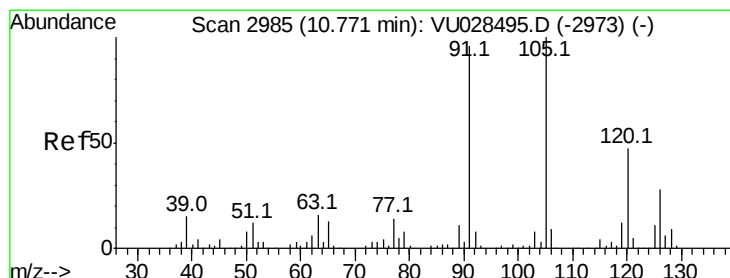
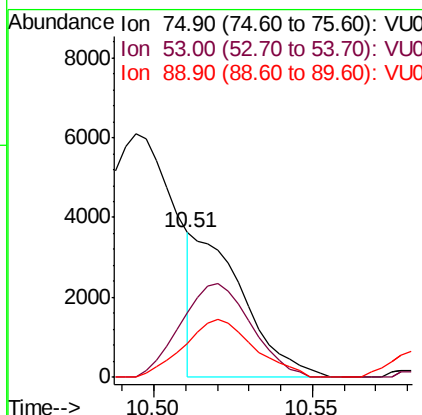
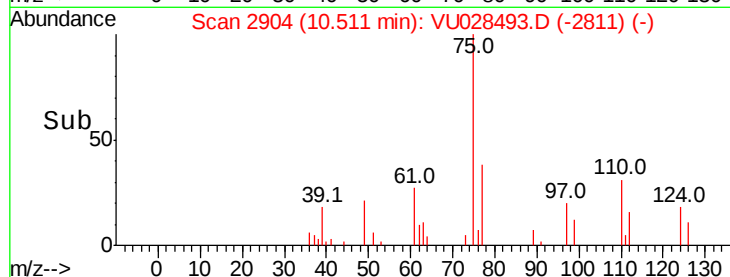
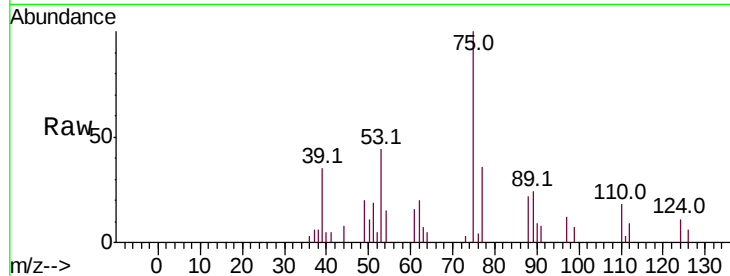
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

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#82

4-Chlorotoluene

Concen: 5.053 ug/l

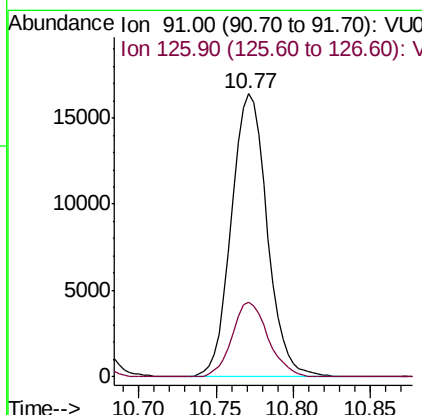
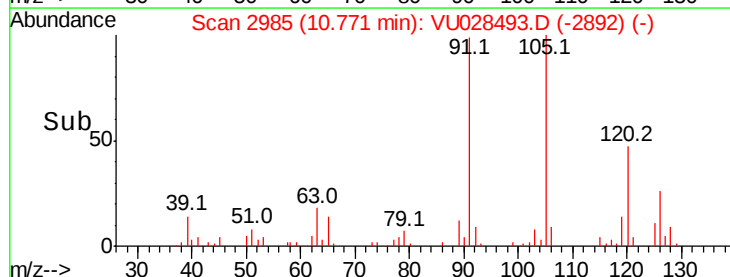
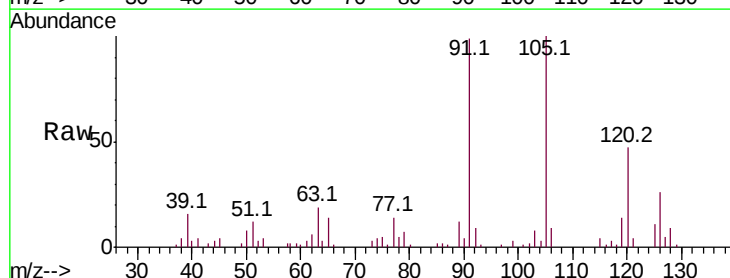
RT: 10.77 min Scan# 2985

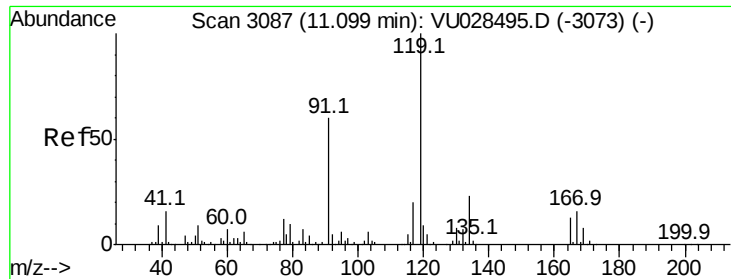
Delta R.T. -0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
91	100		
126	26.4	14.1	42.3





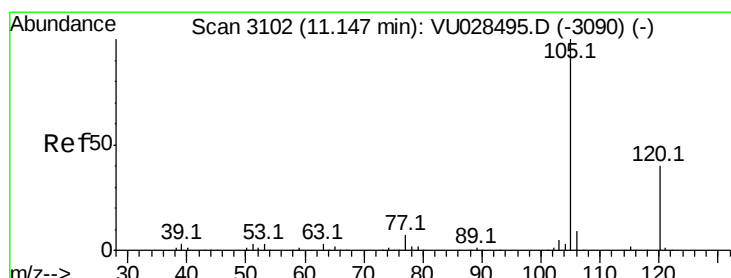
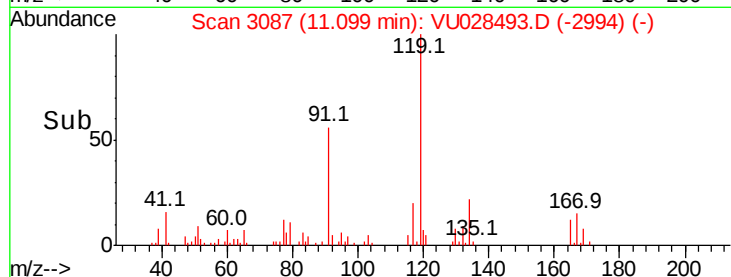
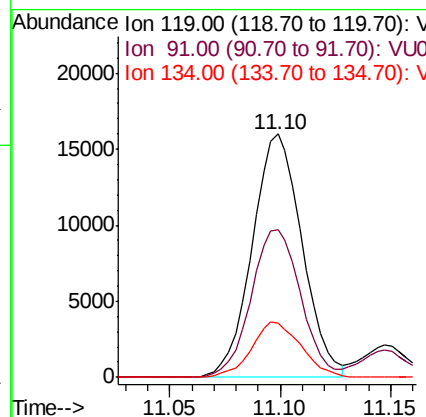
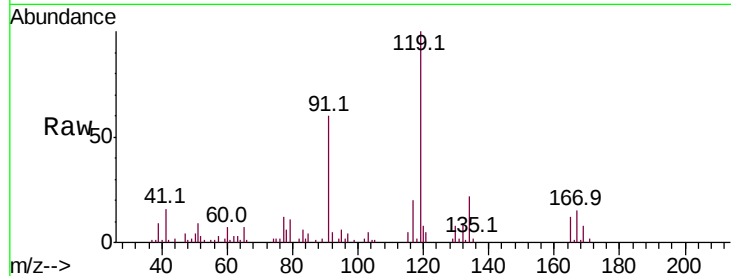
#83
tert-Butylbenzene
Concen: 5.097 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.4	30.3	91.0
134	22.5	11.2	33.5

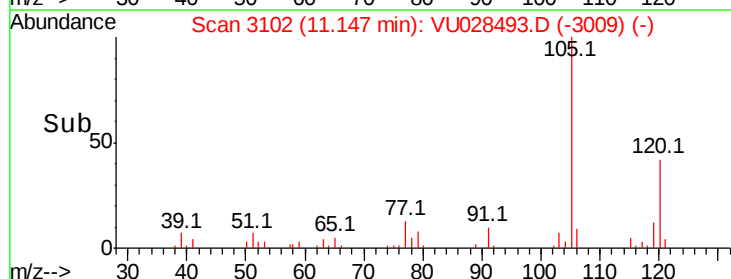
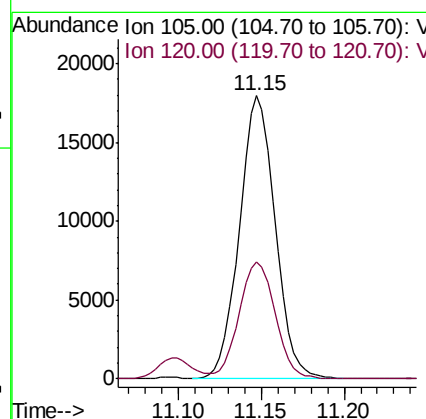
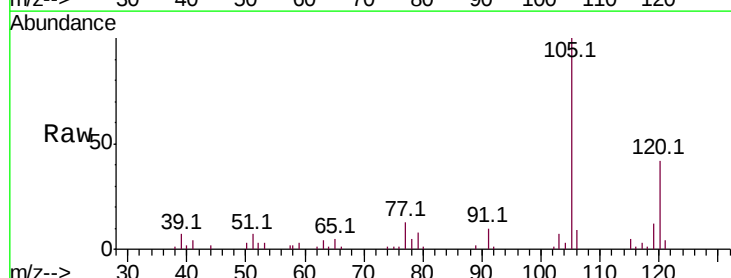
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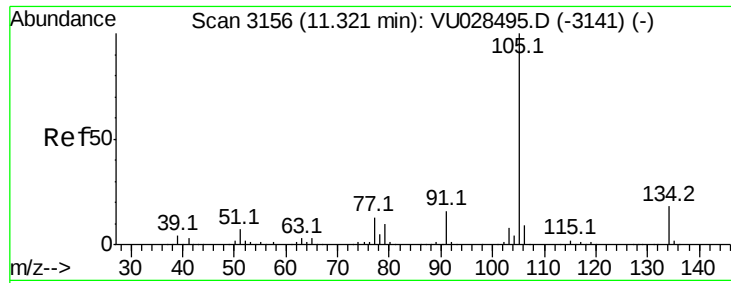
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#84
1,2,4-Trimethylbenzene
Concen: 5.132 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.0	21.8	65.4





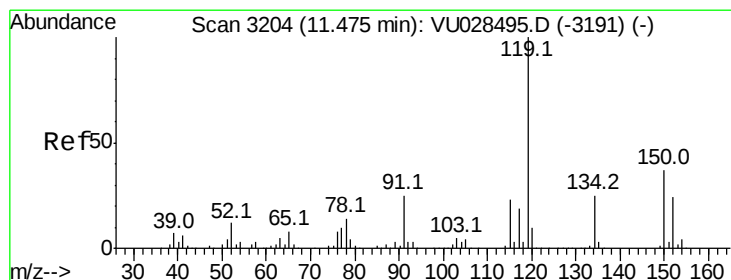
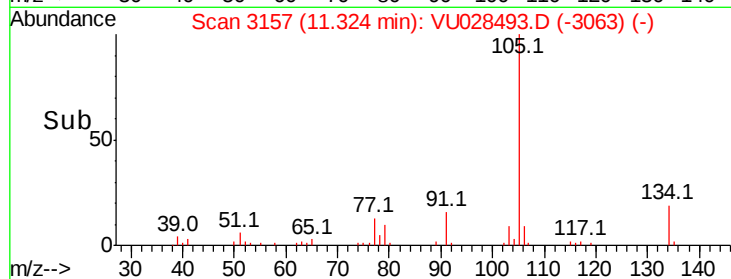
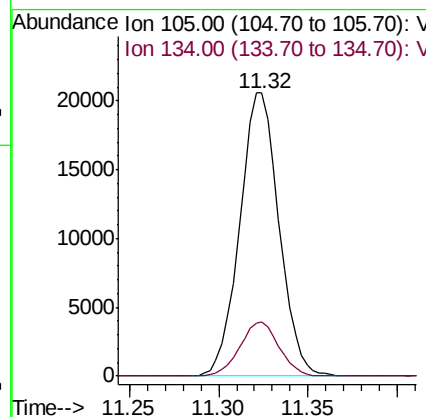
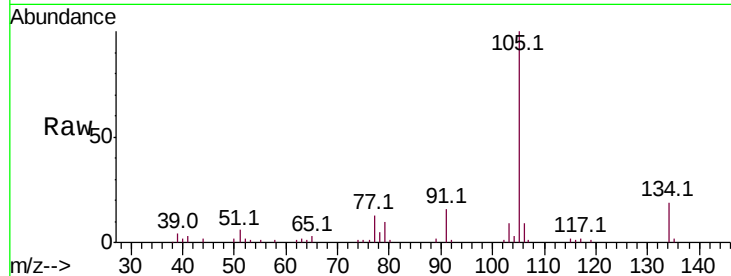
#85
 sec-Butylbenzene
 Concen: 5.013 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:105 Resp: 31591
 Ion Ratio Lower Upper
 105 100
 134 19.0 9.2 27.6

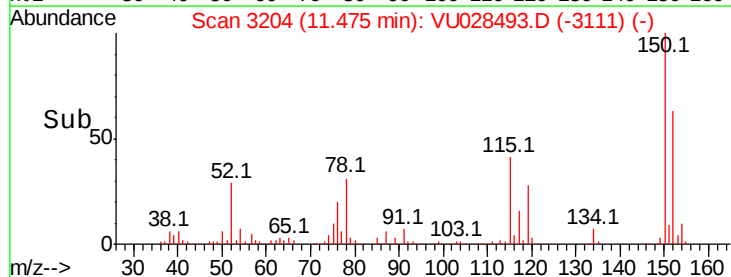
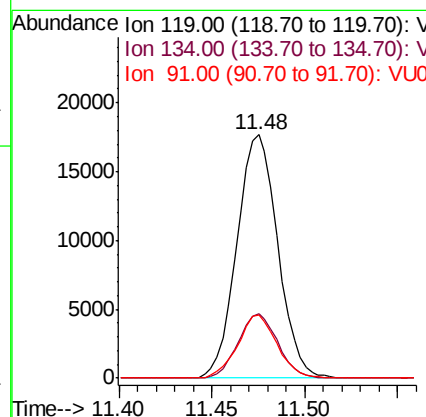
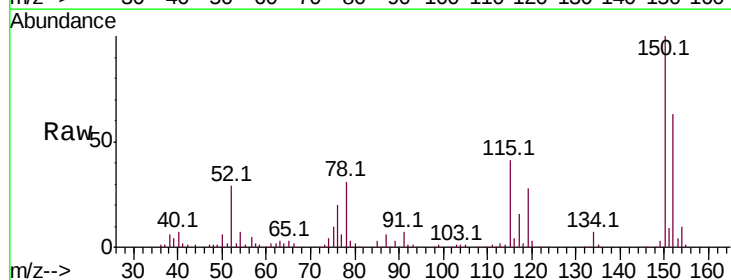
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#86
 p-Isopropyltoluene
 Concen: 5.034 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. -0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Tgt Ion:119 Resp: 26946
 Ion Ratio Lower Upper
 119 100
 134 25.7 12.7 38.1
 91 25.0 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 5.137 ug/l

RT: 11.42 min Scan# 3186

Delta R.T. 0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Instrument :

MSVOA_U

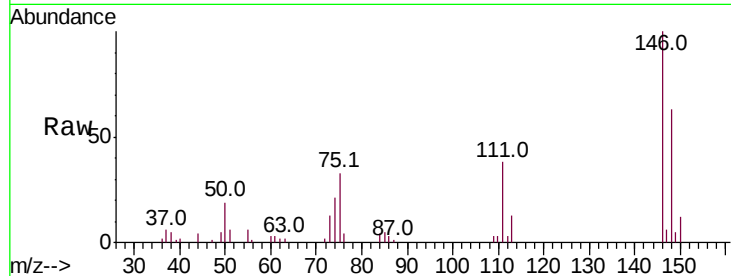
ClientSampleId :

VSTDIC005

Tot Ion:	146	Resp:	13948
Ion Ratio	Lower	Upper	
146	100		
111	40.6	20.7	62.1
148	63.4	31.9	95.7

Manual Integrations
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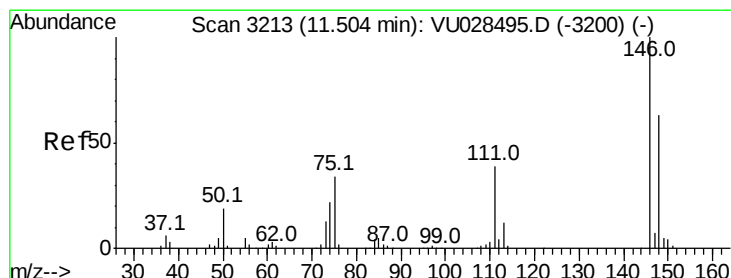
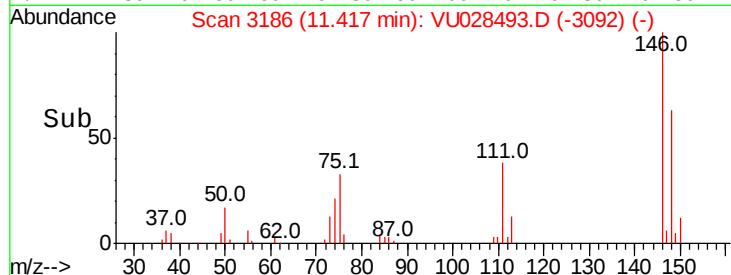
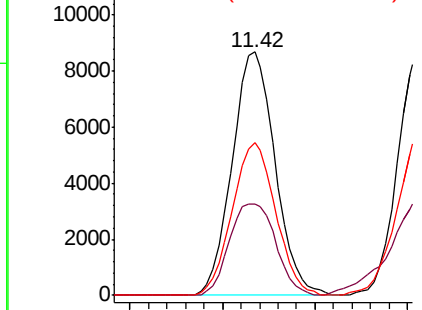


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 5.021 ug/l

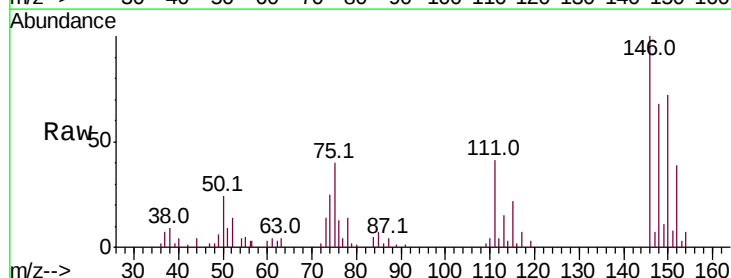
RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU028493.D

Acq: 06 Dec 2018 11:47

Tgt Ion:	146	Resp:	14105
Ion Ratio	Lower	Upper	
146	100		
111	48.4	20.2	60.5
148	66.7	31.6	95.0

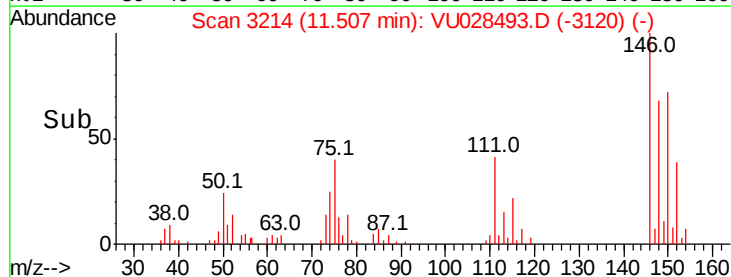
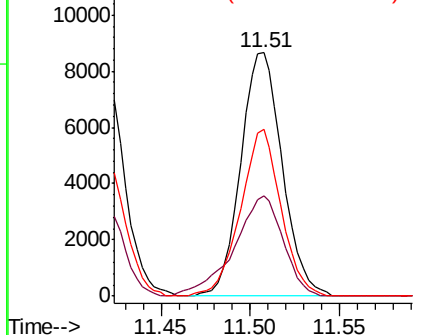


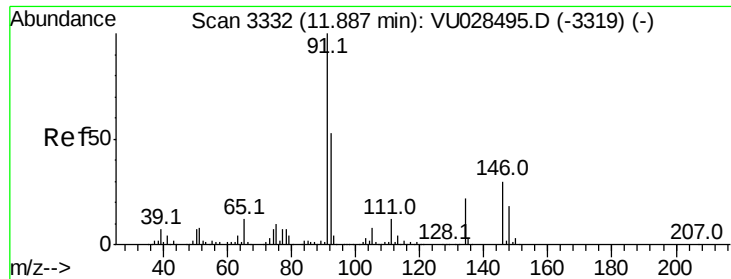
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





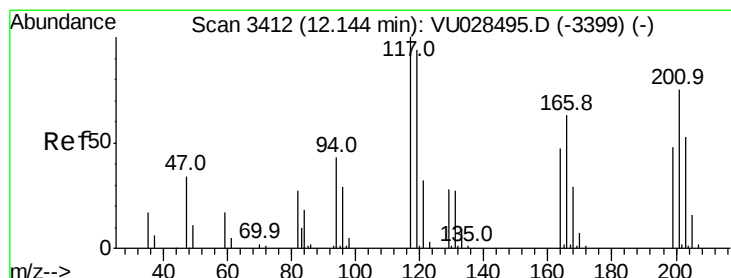
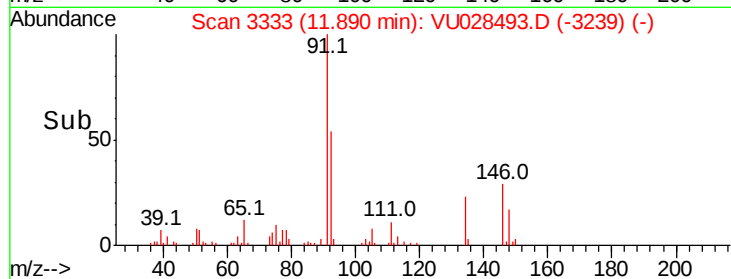
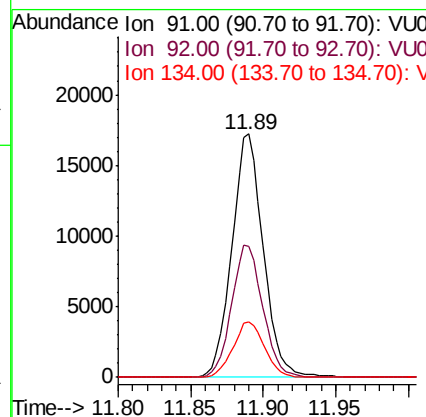
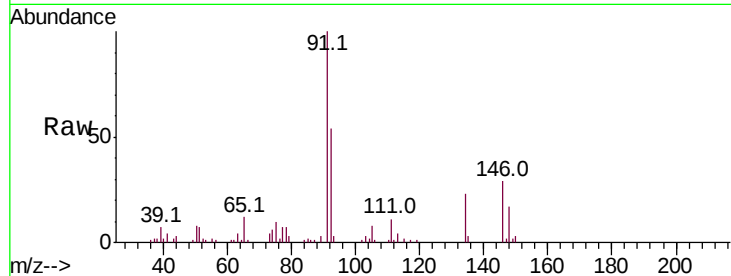
#89
n-Butylbenzene
Concen: 4.762 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. 0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.3	78.9
134	22.7	11.3	33.8

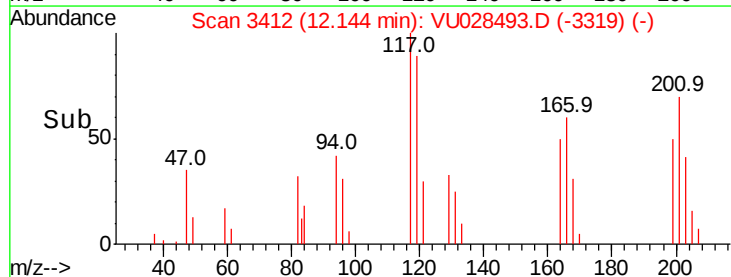
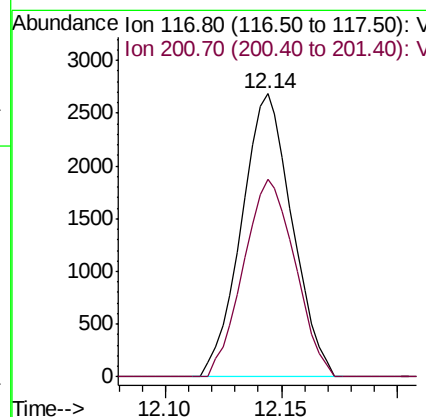
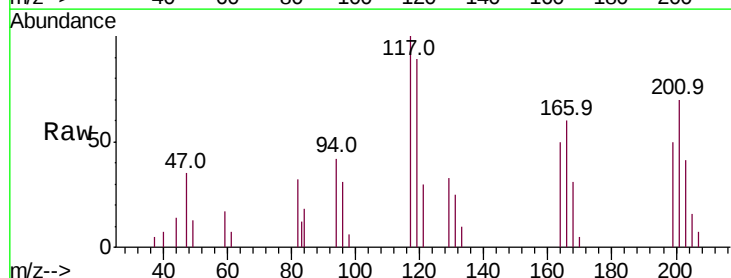
Manual Integrations
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#90
Hexachloroethane
Concen: 5.039 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
117	100		
201	70.9	38.1	114.5





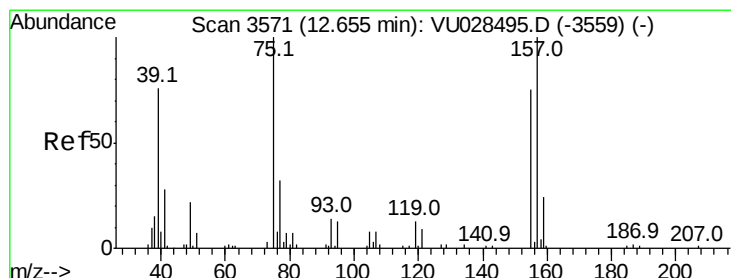
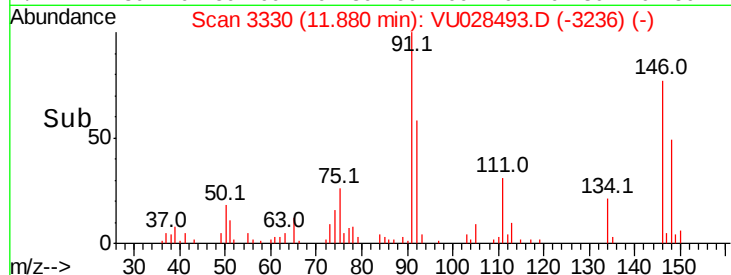
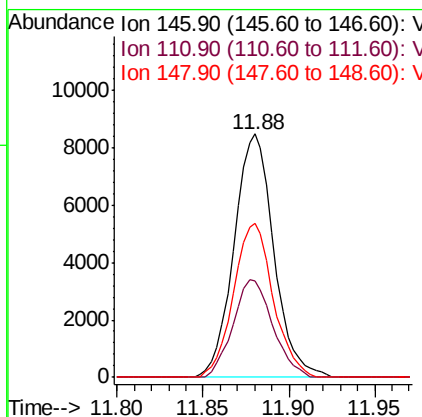
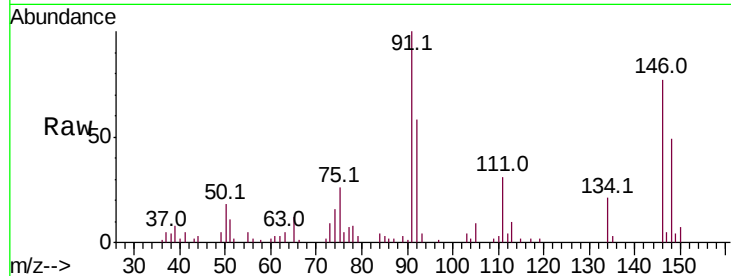
#91
 1,2-Dichlorobenzene
 Concen: 5.034 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	21.1	63.4
148	63.1	31.4	94.2

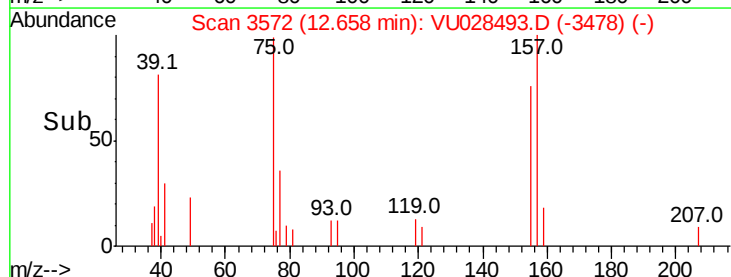
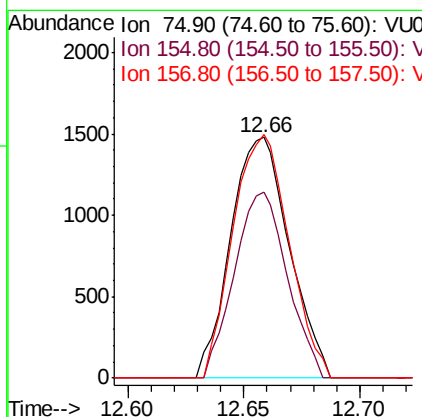
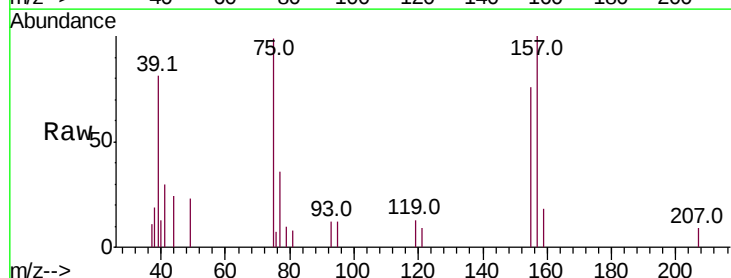
Manual Integrations
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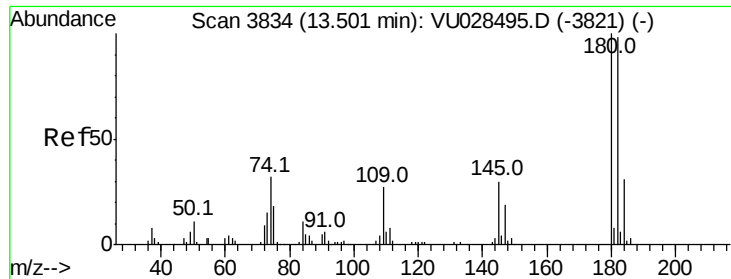
MMDadoda
 12/7/2018 10:34:45 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.077 ug/l
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	69.9	38.1	114.5
157	96.8	48.7	146.1





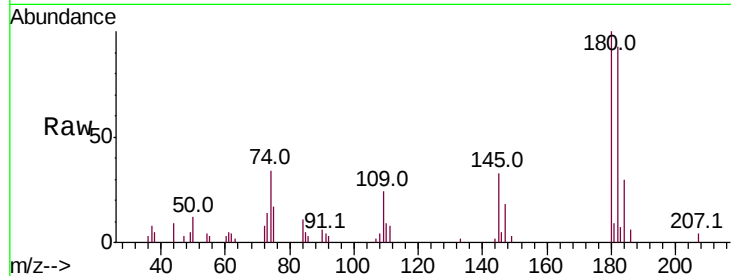
#93
 1,2,4-Trichlorobenzene
 Concen: 4.341 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

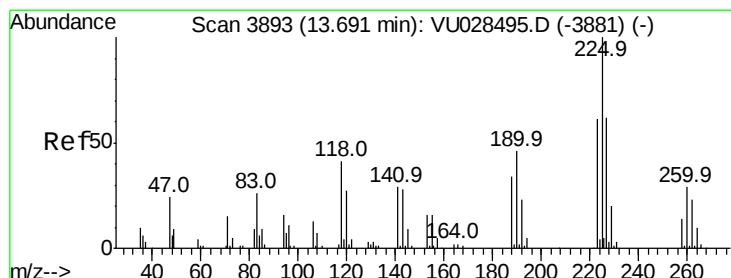
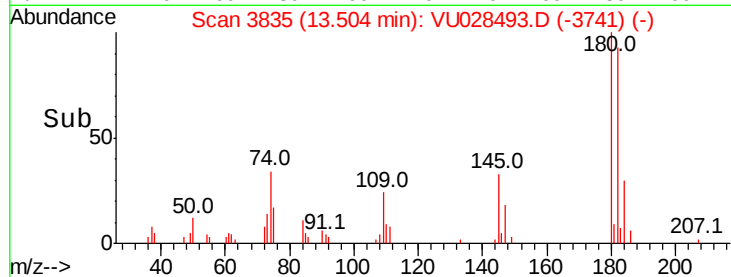
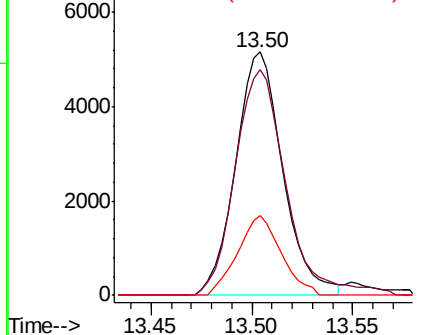
Tot Ion	Ratio	Lower	Upper
180	100		
182	100.0	47.9	143.8
145	30.1	15.0	45.1

Manual Integrations
 APPROVED

MMDadoda
 12/7/2018 10:34:45 AM

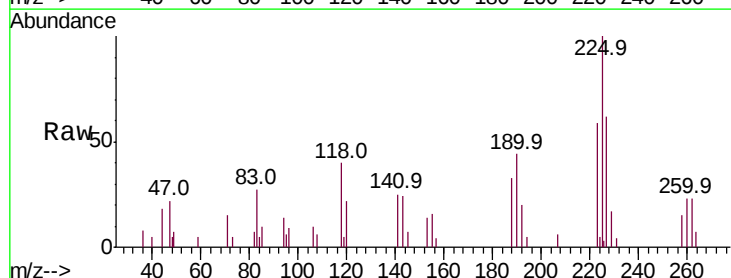


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

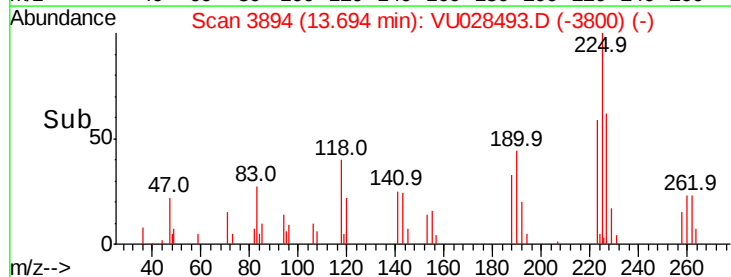
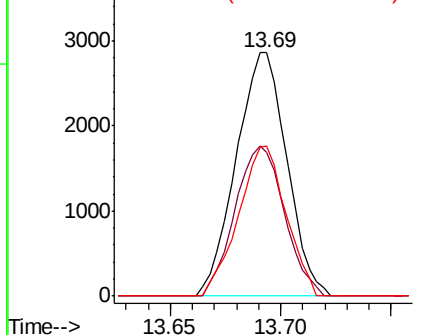


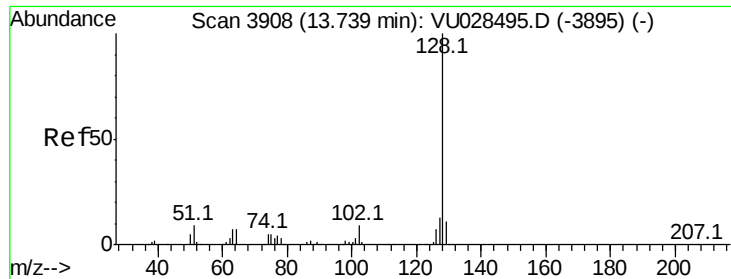
#94
 Hexachlorobutadiene
 Concen: 5.113 ug/l
 RT: 13.69 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU028493.D
 Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.3	30.4	91.2
227	58.0	30.7	92.1



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





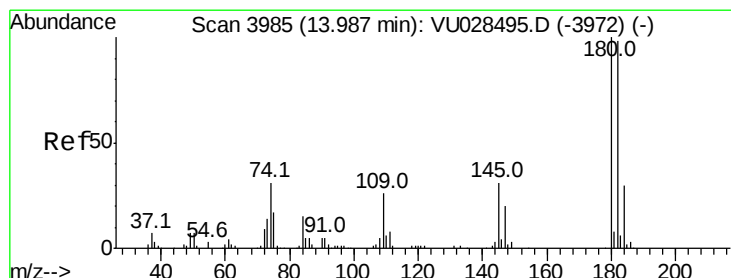
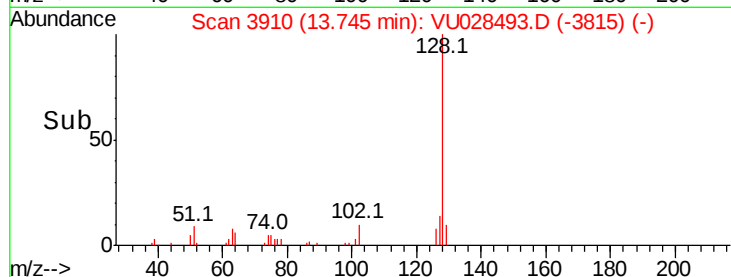
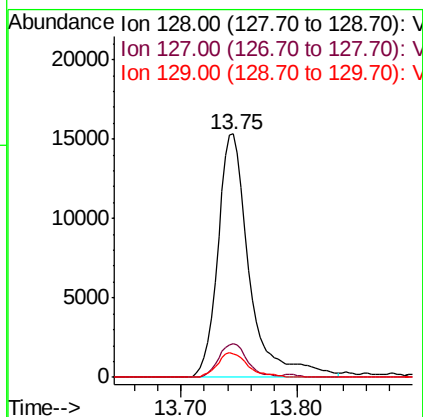
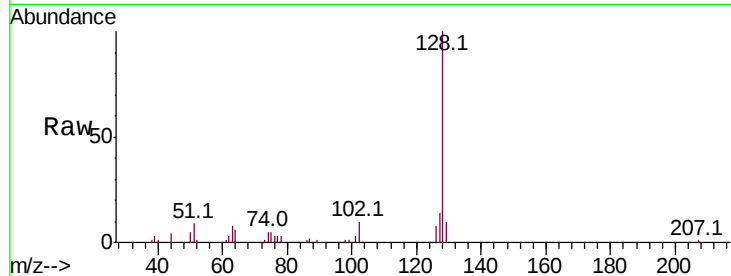
#95
Naphthalene
Concen: 4.433 ug/l
RT: 13.75 min Scan# 3910
Delta R.T. 0.01 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.4	15.6
129	9.7	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/7/2018 10:34:45 AM



#96
1,2,3-Trichlorobenzene
Concen: 4.533 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. -0.00 min
Lab File: VU028493.D
Acq: 06 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.3	48.2	144.6
145	30.8	15.8	47.3

