

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029193.D
 Acq On : 15 Jan 2019 18:21
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 1/16/2019 9:42:16 AM

Quant Time: Jan 16 06:53:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	107016	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	174685	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	165078	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	82531	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	70036	52.94	ug/l	0.00
Spiked Amount			Recovery	=	105.88%	
35) Dibromofluoromethane	4.88	113	59578	52.61	ug/l	0.00
Spiked Amount			Recovery	=	105.22%	
50) Toluene-d8	7.56	98	230121	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
62) 4-Bromofluorobenzene	10.30	95	81807	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	29692	27.977	ug/l	96
3) Chloromethane	1.33	50	45750	26.683	ug/l	100
4) Vinyl Chloride	1.40	62	47071	30.097	ug/l	99
5) Bromomethane	1.61	94	25736	30.843	ug/l	100
6) Chloroethane	1.69	64	27824	29.868	ug/l	100
7) Trichlorofluoromethane	1.88	101	52090	30.565	ug/l	97
8) Diethyl Ether	2.10	74	25237	30.824	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.28	101	33208	29.122	ug/l	98
10) Methyl Iodide	2.40	142	34519	32.195	ug/l	98
11) Tert butyl alcohol	2.83	59	59110	175.782	ug/l	98
12) 1,1-Dichloroethene	2.28	96	31623	28.492	ug/l	97
13) Acrolein	2.19	56	64535	255.582	ug/l	100
14) Allyl chloride	2.59	41	60042	29.483	ug/l	92
15) Acrylonitrile	2.93	53	142637	172.897	ug/l	100
16) Acetone	2.32	43	119615	143.528	ug/l	100
17) Carbon Disulfide	2.47	76	99523	26.820	ug/l	99
18) Methyl Acetate	2.61	43	73131	37.740	ug/l	100
19) Methyl tert-butyl Ether	3.00	73	124305	31.856	ug/l	100
20) Methylene Chloride	2.70	84	42927	30.338	ug/l	97
21) trans-1,2-Dichloroethene	2.98	96	37514	29.092	ug/l	94
22) Diisopropyl ether	3.57	45	133631	33.201	ug/l	97
23) Vinyl Acetate	3.52	43	543144	165.072	ug/l	99
24) 1,1-Dichloroethane	3.44	63	75682	32.573	ug/l	100
25) 2-Butanone	4.26	43	192101	170.663	ug/l	99
26) 2,2-Dichloropropane	4.22	77	57967	30.876	ug/l	100
27) cis-1,2-Dichloroethene	4.22	96	44783	31.753	ug/l	100
28) Bromochloromethane	4.54	49	52398	52.667	ug/l	100
29) Tetrahydrofuran	4.64	42	122493	179.423	ug/l	97
30) Chloroform	4.67	83	73034	33.002	ug/l	98
31) Cyclohexane	4.99	56	65718	29.503	ug/l	97
32) 1,1,1-Trichloroethane	4.91	97	58250	31.855	ug/l	98
36) 1,1-Dichloropropene	5.13	75	53280	30.514	ug/l	97
37) Ethyl Acetate	4.38	43	66086	34.481	ug/l	99
38) Carbon Tetrachloride	5.13	117	46787	32.127	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	62706	29.212	ug/l	98
40) Benzene	5.39	78	171037	31.404	ug/l	100
41) Methacrylonitrile	4.54	41	37011	36.076	ug/l	98
42) 1,2-Dichloroethane	5.40	62	54746	33.451	ug/l	99
43) Isopropyl Acetate	5.55	43	101504	34.525	ug/l	99
44) Trichloroethene	6.18	130	40369	29.915	ug/l	99
45) 1,2-Dichloropropane	6.43	63	47233	32.840	ug/l	99
46) Dibromomethane	6.56	93	29955	32.580	ug/l	99
47) Bromodichloromethane	6.76	83	56348	33.286	ug/l	98
48) Methyl methacrylate	6.62	41	51234	35.789	ug/l	99
49) 1,4-Dioxane	6.61	88	25188	742.439	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	356654	178.251	ug/l	99
52) Toluene	7.63	92	103511	31.219	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	65076	32.001	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	69955	31.836	ug/l	97
55) 1,1,2-Trichloroethane	8.06	97	44564	33.550	ug/l	98
56) Ethyl methacrylate	8.02	69	66167	32.334	ug/l	96
57) 1,3-Dichloropropane	8.24	76	74010	32.563	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	249176	276.875	ug/l	99
59) 2-Hexanone	8.36	43	276055	175.764	ug/l	99
60) Dibromochloromethane	8.48	129	42902	32.601	ug/l	97
61) 1,2-Dibromoethane	8.58	107	46533	32.301	ug/l	99
64) Tetrachloroethene	8.22	164	35313	29.696	ug/l	99
65) Chlorobenzene	9.12	112	112730	30.465	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	38493	32.055	ug/l	99
67) Ethyl Benzene	9.25	91	195439	31.636	ug/l	99
68) m/p-Xylenes	9.37	106	150214	62.579	ug/l	98
69) o-Xylene	9.78	106	74091	32.034	ug/l	99
70) Styrene	9.79	104	121325	31.999	ug/l	99
71) Bromoform	9.95	173	34552	32.315	ug/l #	99
73) Isopropylbenzene	10.16	105	188826	30.911	ug/l	99
74) N-amyl acetate	10.01	43	87716	33.322	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.45	83	79068	32.295	ug/l	100
76) 1,2,3-Trichloropropane	10.49	75	67125m	33.195	ug/l	
77) Bromobenzene	10.45	156	49078	30.829	ug/l	99
78) n-propylbenzene	10.58	91	227871	31.653	ug/l	99
79) 2-Chlorotoluene	10.66	91	136118	31.169	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	162226	31.801	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	21160m	26.988	ug/l	
82) 4-Chlorotoluene	10.77	91	152424	30.439	ug/l	100
83) tert-Butylbenzene	11.10	119	155707	30.968	ug/l	100
84) 1,2,4-Trimethylbenzene	11.14	105	172576	33.884	ug/l	99
85) sec-Butylbenzene	11.32	105	193358	31.798	ug/l	100
86) p-Isopropyltoluene	11.47	119	165681	31.975	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	88110	30.175	ug/l	99
88) 1,4-Dichlorobenzene	11.50	146	88378	29.322	ug/l	99
89) n-Butylbenzene	11.89	91	151432	32.744	ug/l	99
90) Hexachloroethane	12.14	117	27589	31.650	ug/l	99
91) 1,2-Dichlorobenzene	11.88	146	89329	30.373	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.65	75	15955	33.882	ug/l	96

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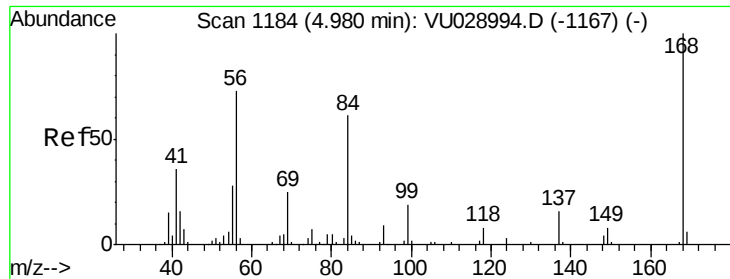
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	57151	30.441	ug/l	99
94) Hexachlorobutadiene	13.69	225	28190	32.828	ug/l	99
95) Naphthalene	13.74	128	194143	30.398	ug/l	100
96) 1,2,3-Trichlorobenzene	13.99	180	59050	30.854	ug/l	99

(#) = 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: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 107016

Ion Ratio Lower Upper

168 100

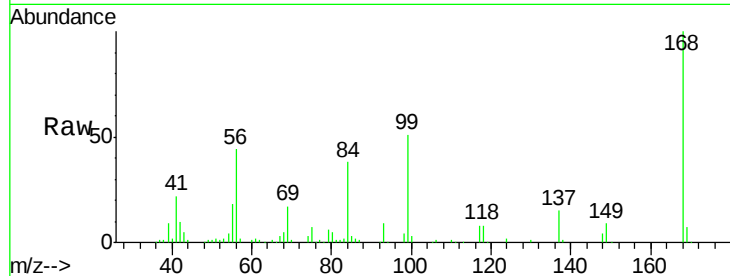
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Manual Integrations

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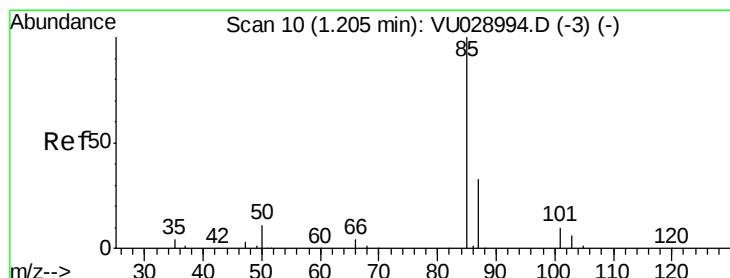
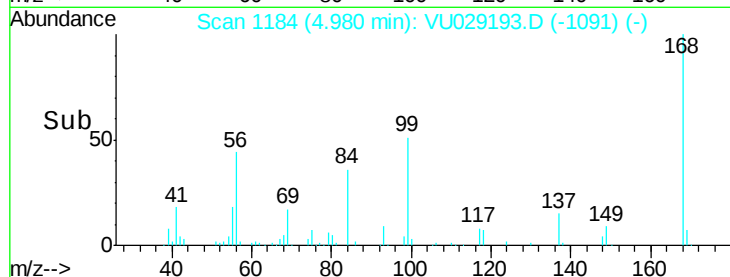
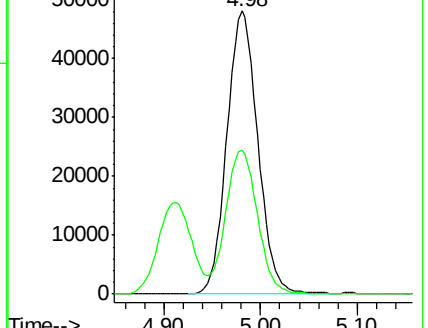
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)



#2

Dichlorodifluoromethane

Concen: 27.977 ug/l

RT: 1.20 min Scan# 9

Delta R.T. -0.00 min

Lab File: VU029193.D

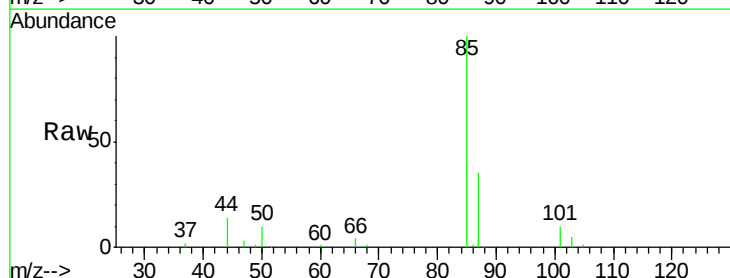
Acq: 15 Jan 2019 18:21

Tgt Ion: 85 Resp: 29692

Ion Ratio Lower Upper

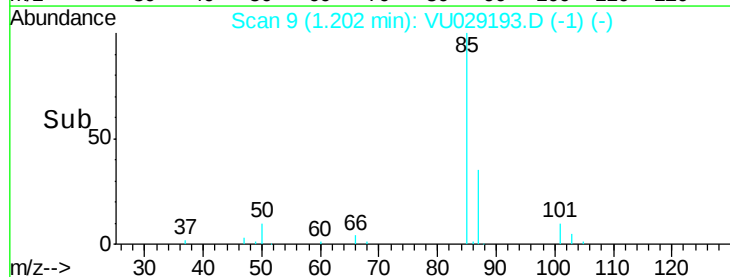
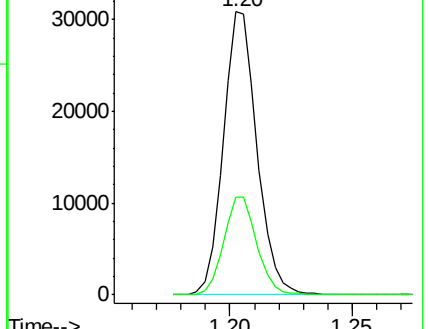
85 100

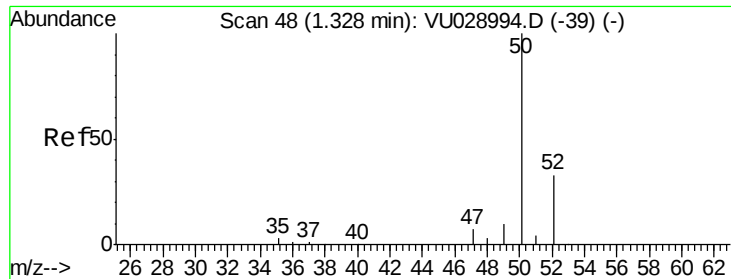
87 34.6 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VU028994.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU028994.D (-3) (-)





#3

Chloromethane

Concen: 26.683 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 45750

Ion Ratio Lower Upper

50 100

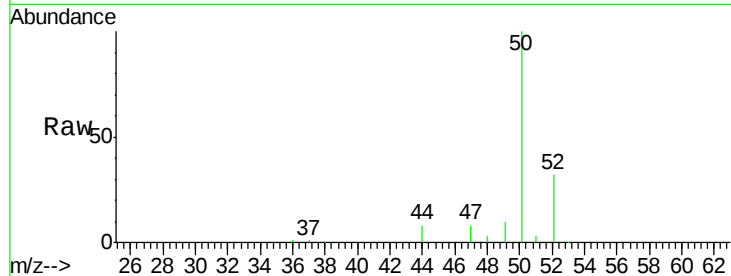
52 32.4 26.1 39.1

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Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0

1.33

40000

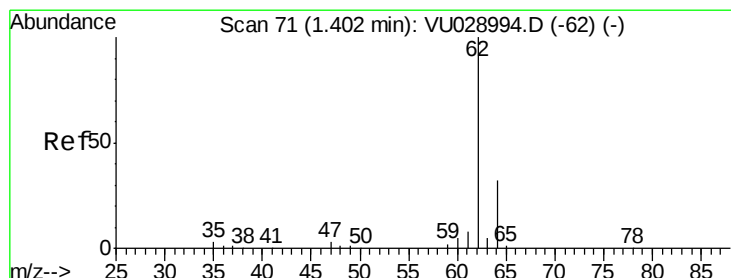
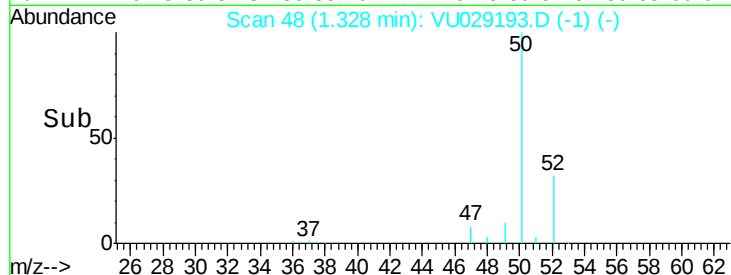
30000

20000

10000

0

Time-->



#4

Vinyl Chloride

Concen: 30.097 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU029193.D

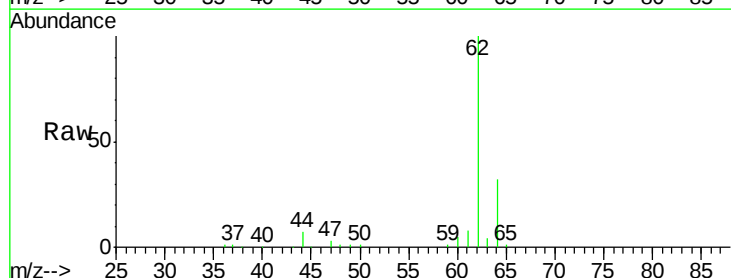
Acq: 15 Jan 2019 18:21

Tgt Ion: 62 Resp: 47071

Ion Ratio Lower Upper

62 100

64 31.9 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

1.40

50000

40000

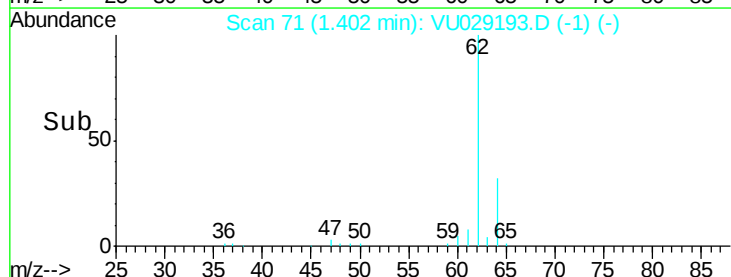
30000

20000

10000

0

Time-->





#5

Bromomethane

Concen: 30.843 ug/l

RT: 1.61 min Scan# 136

Delta R.T. 0.01 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 25736

Ion Ratio Lower Upper

94 100

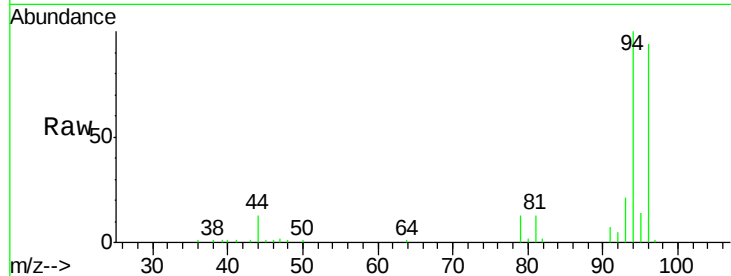
96 94.3 75.5 113.3

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

25000

20000

15000

10000

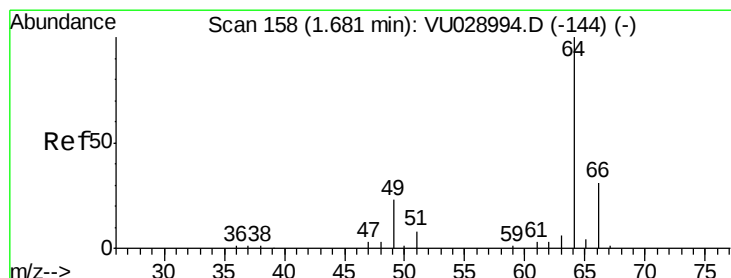
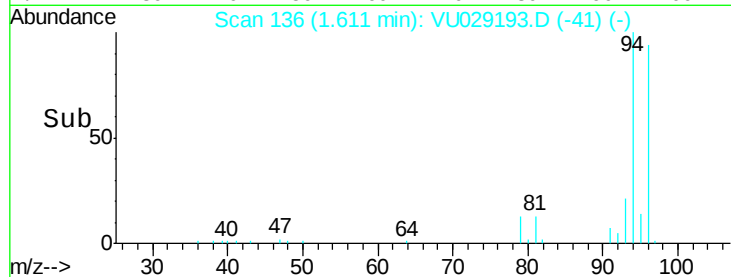
5000

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Time-->

1.55 1.60 1.65 1.70

1.61



#6

Chloroethane

Concen: 29.868 ug/l

RT: 1.69 min Scan# 160

Delta R.T. 0.01 min

Lab File: VU029193.D

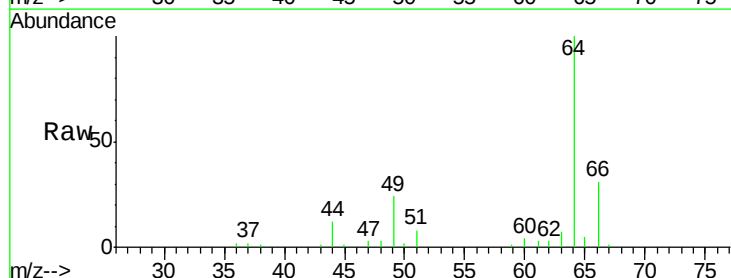
Acq: 15 Jan 2019 18:21

Tgt Ion: 64 Resp: 27824

Ion Ratio Lower Upper

64 100

66 31.3 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

25000

20000

15000

10000

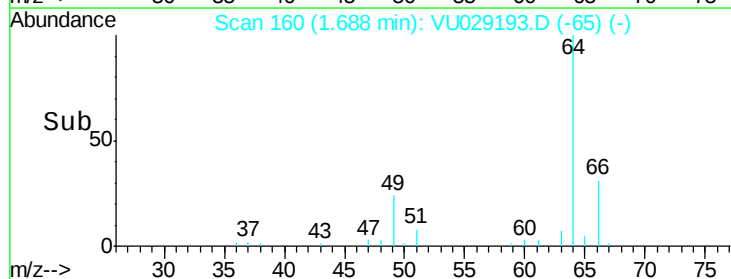
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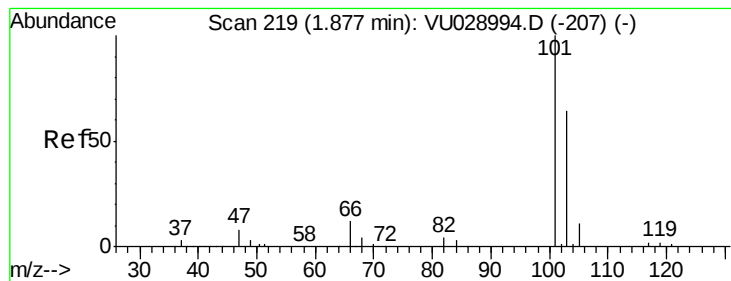
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Time-->

1.60 1.65 1.70 1.75

1.69





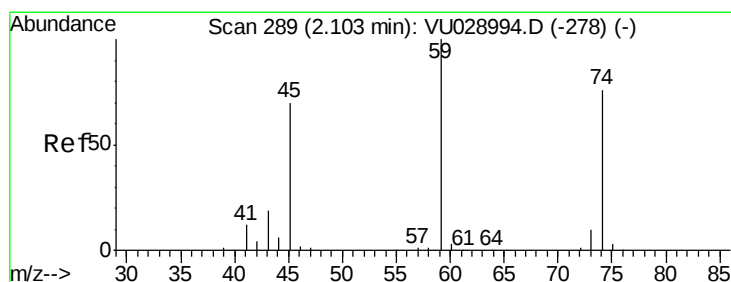
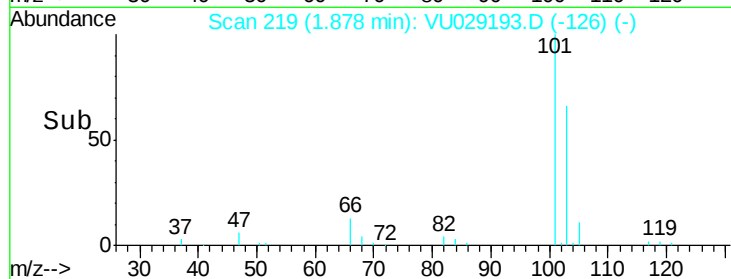
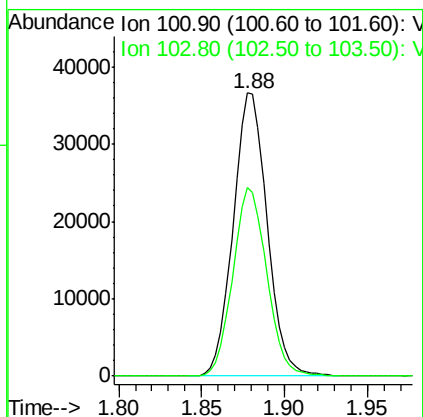
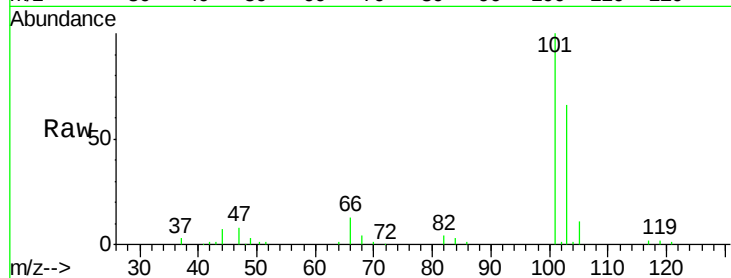
#7
 Trichlorofluoromethane
 Concen: 30.565 ug/l
 RT: 1.88 min Scan# 219
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:101 Resp: 52090
 Ion Ratio Lower Upper
 101 100
 103 66.5 51.5 77.3

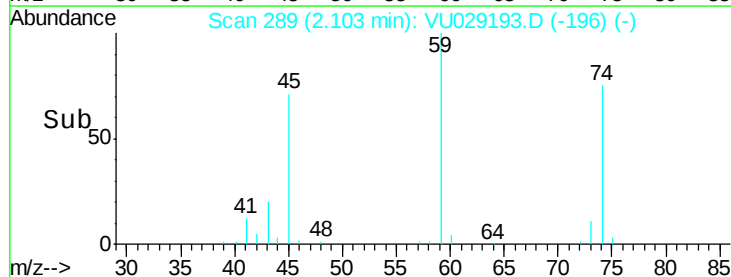
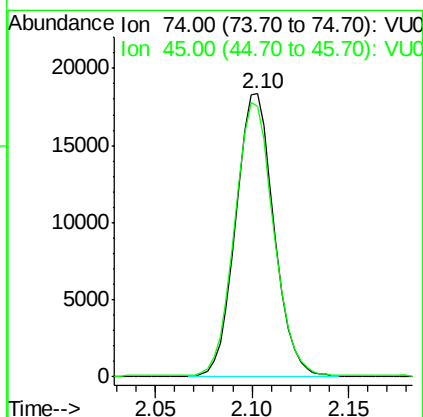
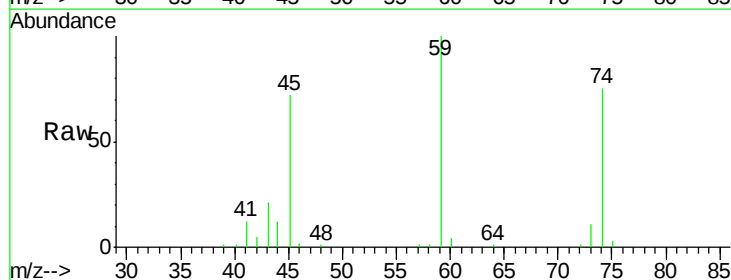
Manual Integrations
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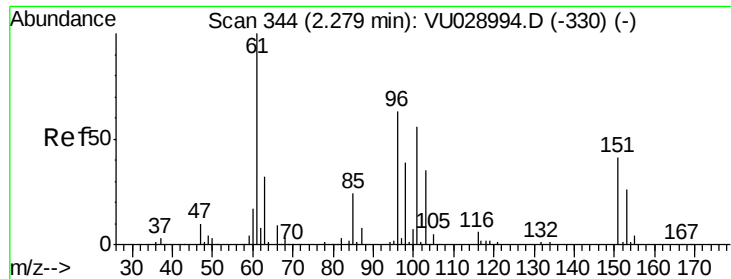
MMDadoda
 1/16/2019 9:42:16 AM



#8
 Diethyl Ether
 Concen: 30.824 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Tgt Ion: 74 Resp: 25237
 Ion Ratio Lower Upper
 74 100
 45 97.6 46.9 140.6





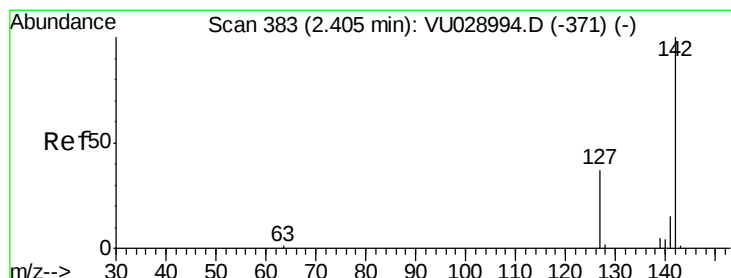
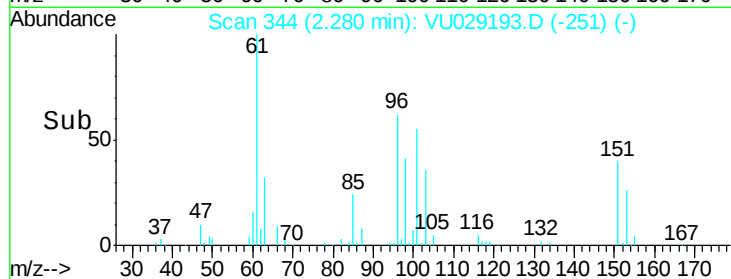
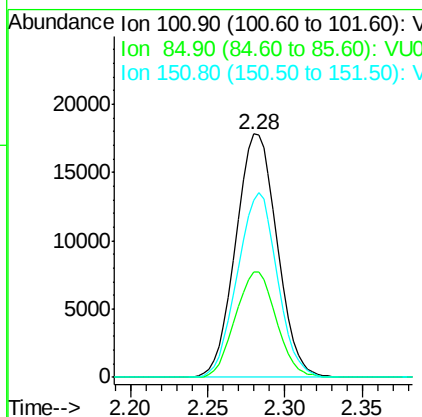
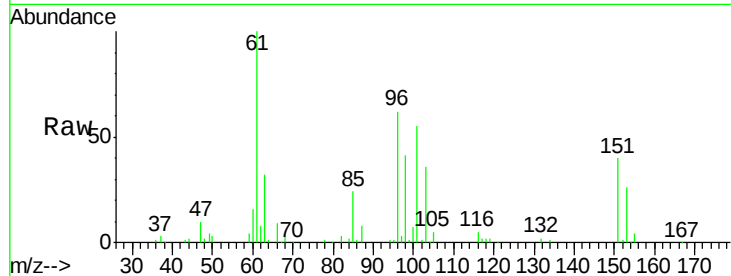
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 29.122 ug/l
 RT: 2.28 min Scan# 344
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

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Tot Ion	Ratio	Lower	Upper
101	100		
85	42.7	35.1	52.7
151	73.2	60.2	90.2

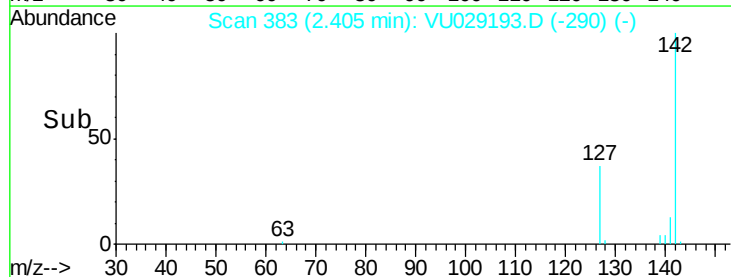
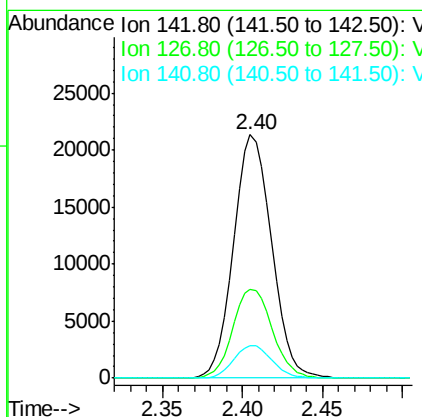
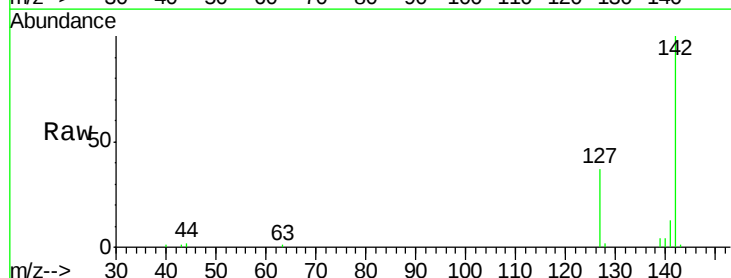
Manual Integrations
 APPROVED

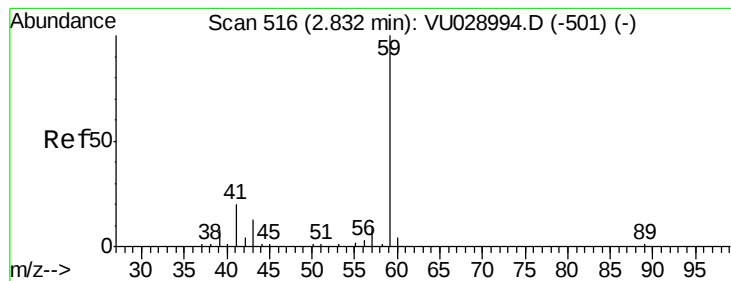
MMDadoda
 1/16/2019 9:42:16 AM



#10
 Methyl Iodide
 Concen: 32.195 ug/l
 RT: 2.40 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
142	100		
127	37.9	29.8	44.6
141	13.3	11.5	17.3





#11

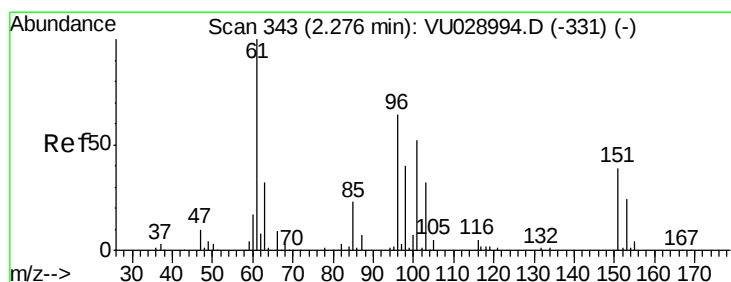
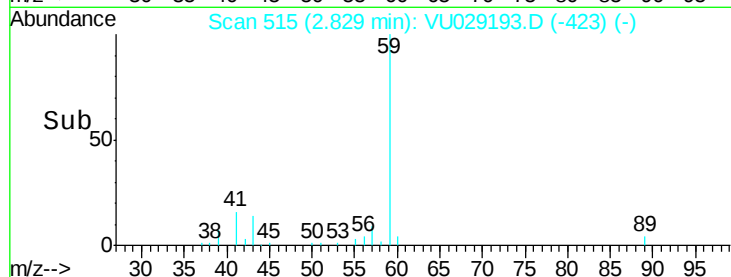
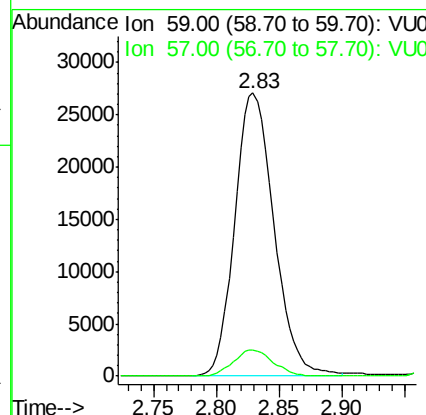
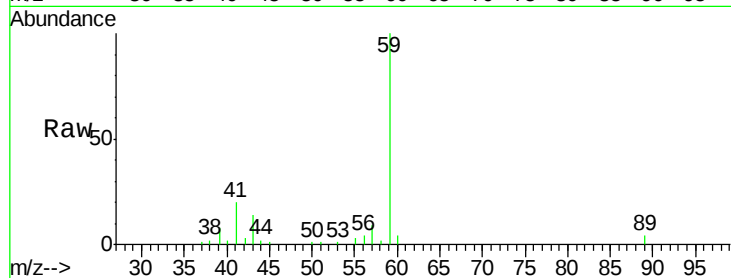
Tert butyl alcohol
Concen: 175.782 ug/l
RT: 2.83 min Scan# 515
Delta R.T. -0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.2	7.9	11.9

Manual Integrations
APPROVED

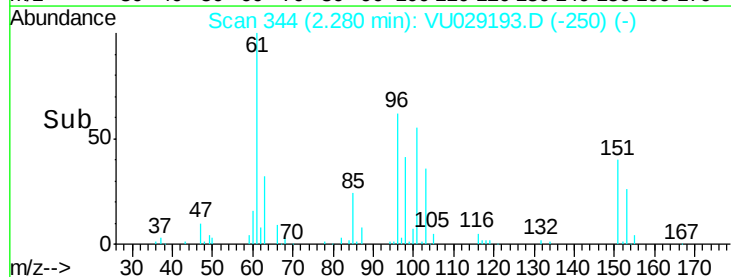
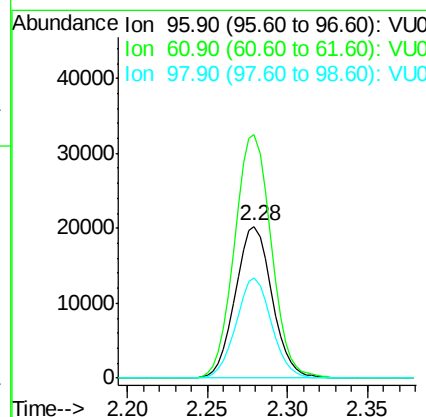
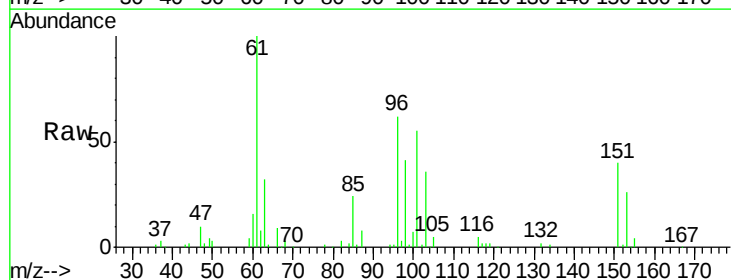
MMDadoda
1/16/2019 9:42:16 AM

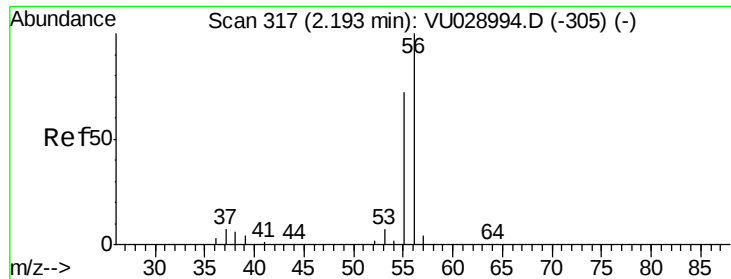


#12

1,1-Dichloroethene
Concen: 28.492 ug/l
RT: 2.28 min Scan# 344
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.3	125.4	188.0
98	66.1	49.7	74.5





#13

Acrolein

Concen: 255.582 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 64535

Ion Ratio Lower Upper

56 100

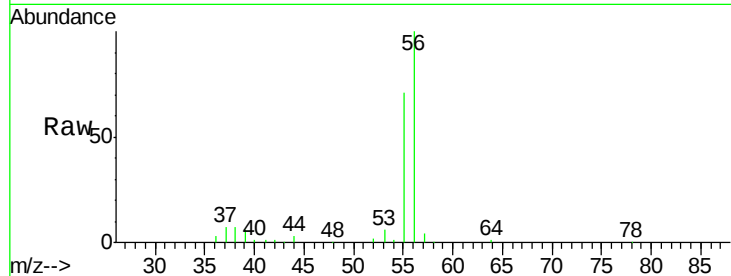
55 70.8 56.5 84.7

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VU029193.D (-224) (-)

Ion 55.00 (54.70 to 55.70): VU029193.D (-224) (-)

2.19

40000

30000

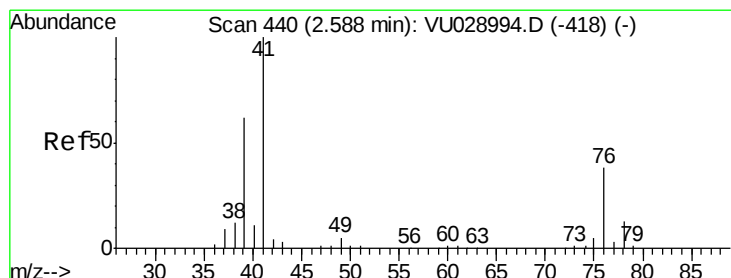
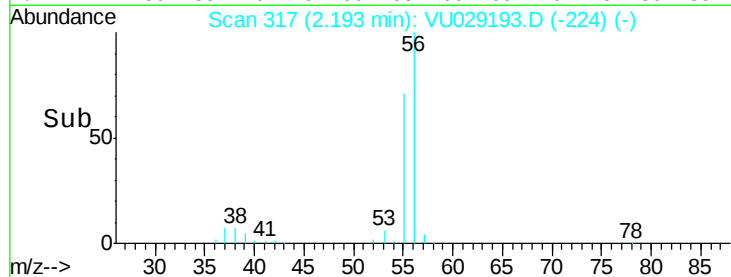
20000

10000

0

Time-->

2.10 2.15 2.20 2.25 2.30



#14

Allyl chloride

Concen: 29.483 ug/l

RT: 2.59 min Scan# 440

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

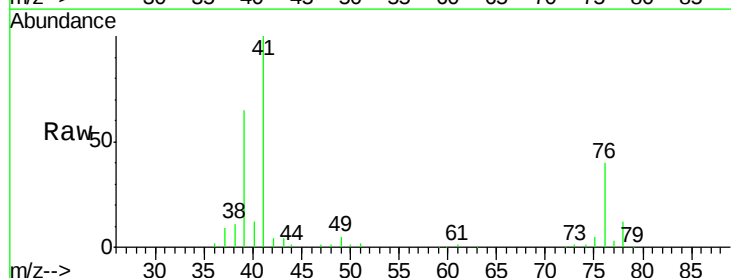
Tgt Ion: 41 Resp: 60042

Ion Ratio Lower Upper

41 100

39 63.2 45.0 67.6

76 37.9 28.1 42.1



Abundance Ion 41.00 (40.70 to 41.70): VU029193.D (-347) (-)

Ion 39.00 (38.70 to 39.70): VU029193.D (-347) (-)

Ion 75.90 (75.60 to 76.60): VU029193.D (-347) (-)

2.59

40000

30000

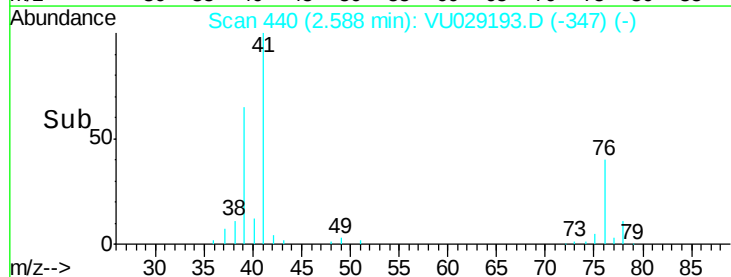
20000

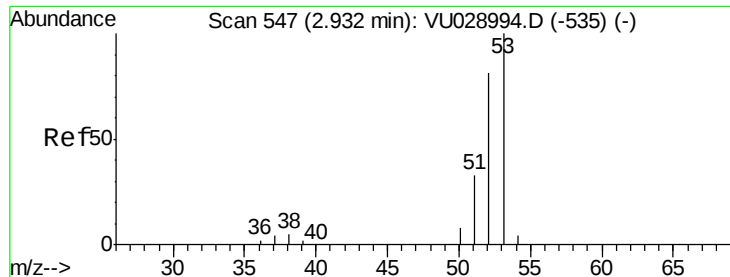
10000

0

Time-->

2.55 2.60 2.65 2.70





#15

Acrylonitrile

Concen: 172.897 ug/l

RT: 2.93 min Scan# 547

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

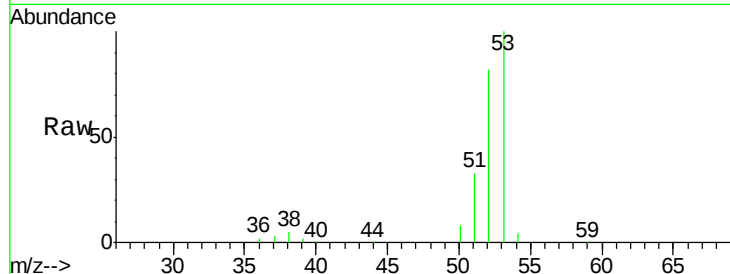
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	142637
Ion	Ratio	Lower	Upper
53	100		
52	81.1	64.8	97.2
51	34.1	27.3	40.9

Manual Integrations
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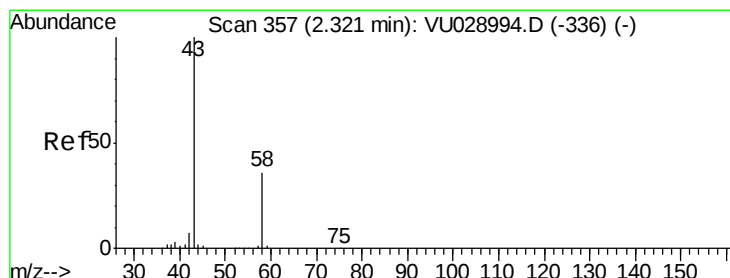
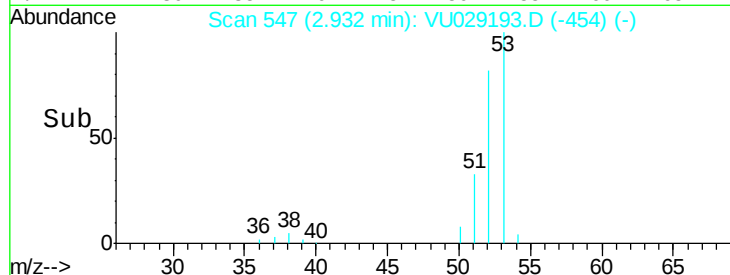
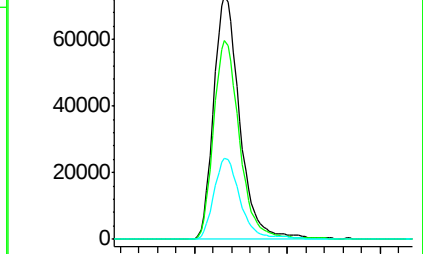
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Abundance Ion 53.00 (52.70 to 53.70): VU029193.D (-535) (-)

Ion 52.00 (51.70 to 52.70): VU029193.D (-535) (-)

Ion 51.00 (50.70 to 51.70): VU029193.D (-535) (-)



#16

Acetone

Concen: 143.528 ug/l

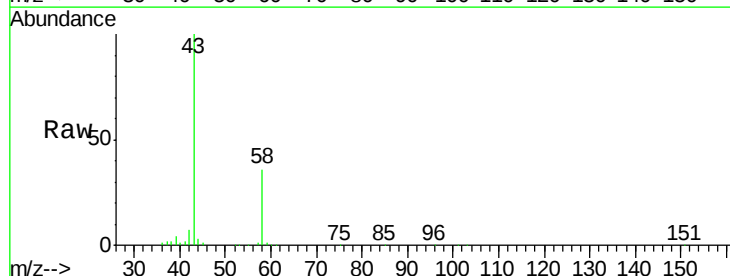
RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029193.D

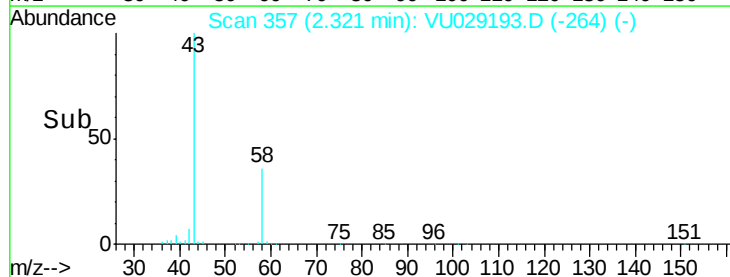
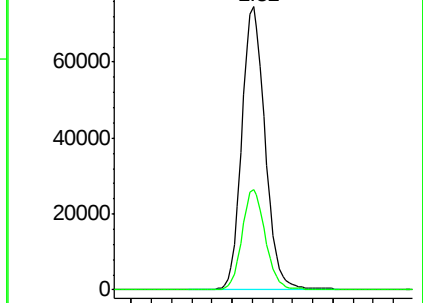
Acq: 15 Jan 2019 18:21

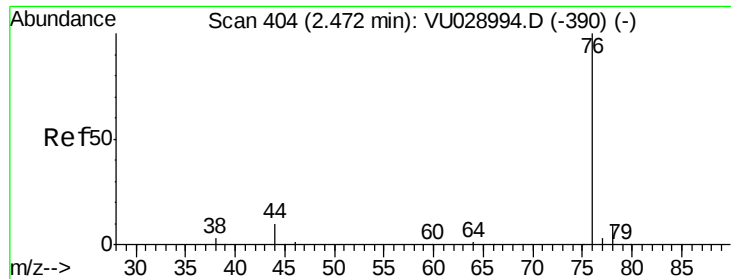
Tgt Ion:	43	Resp:	119615
Ion	Ratio	Lower	Upper
43	100		
58	35.7	28.6	42.8



Abundance Ion 43.00 (42.70 to 43.70): VU029193.D (-336) (-)

Ion 58.00 (57.70 to 58.70): VU029193.D (-336) (-)





#17

Carbon Disulfide

Concen: 26.820 ug/l

RT: 2.47 min Scan# 404

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 99523

Ion Ratio Lower Upper

76 100

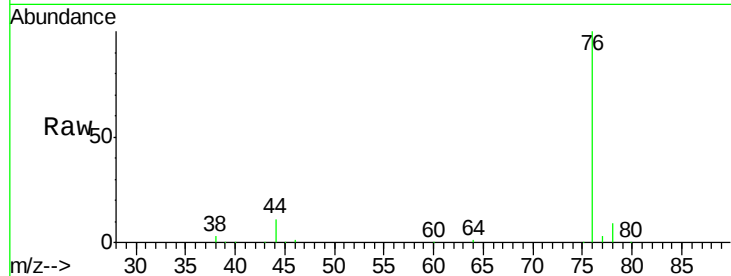
78 9.4 7.2 10.8

Manual Integrations

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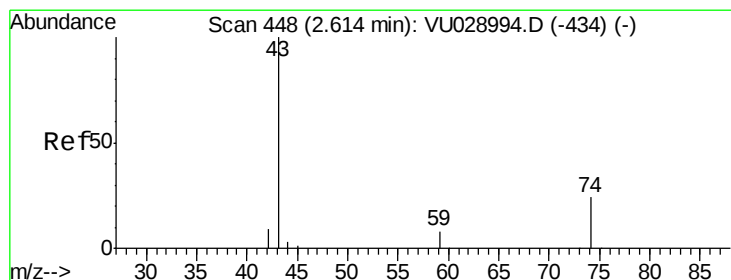
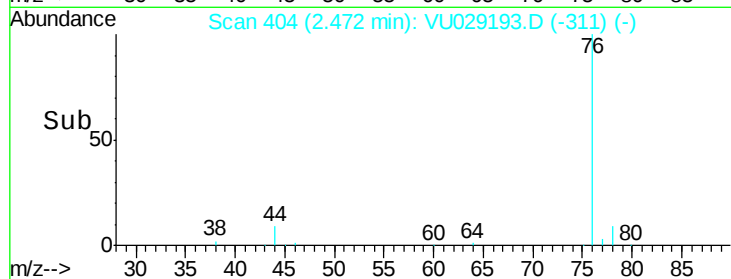
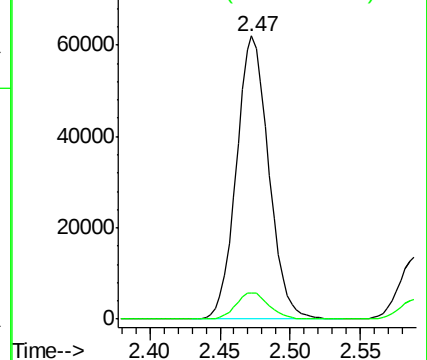
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Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#18

Methyl Acetate

Concen: 37.740 ug/l

RT: 2.61 min Scan# 448

Delta R.T. 0.00 min

Lab File: VU029193.D

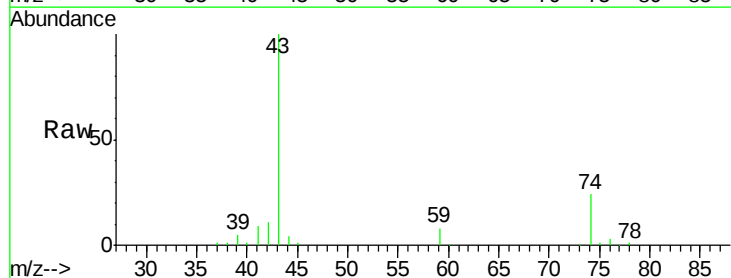
Acq: 15 Jan 2019 18:21

Tgt Ion: 43 Resp: 73131

Ion Ratio Lower Upper

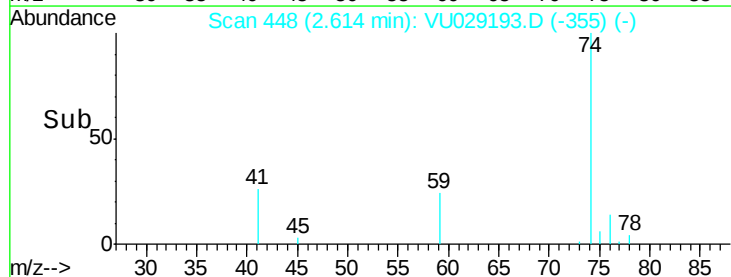
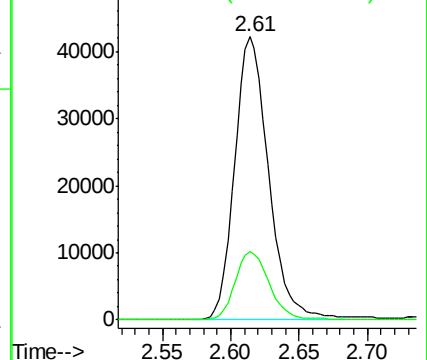
43 100

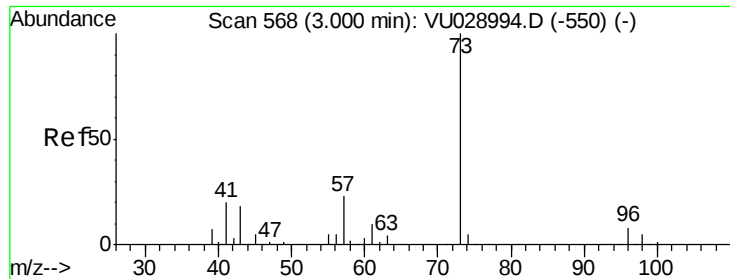
74 24.4 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





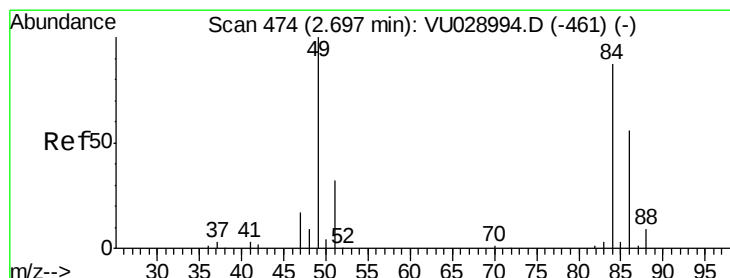
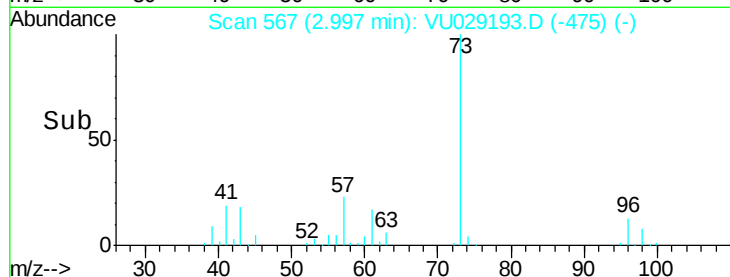
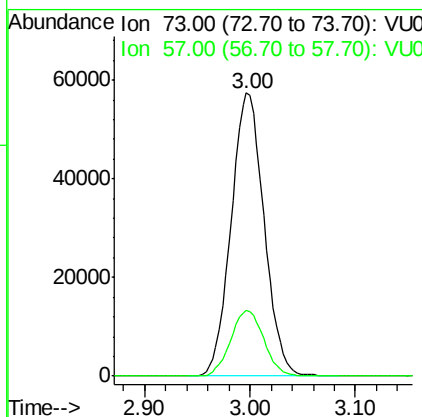
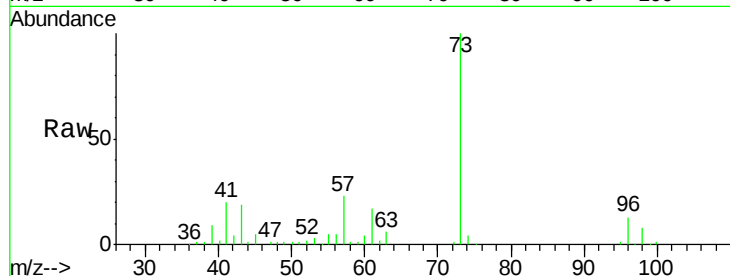
#19
Methyl tert-butyl Ether
Concen: 31.856 ug/l
RT: 3.00 min Scan# 567
Delta R.T. -0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 124305
Ion Ratio Lower Upper
73 100
57 23.1 18.6 28.0

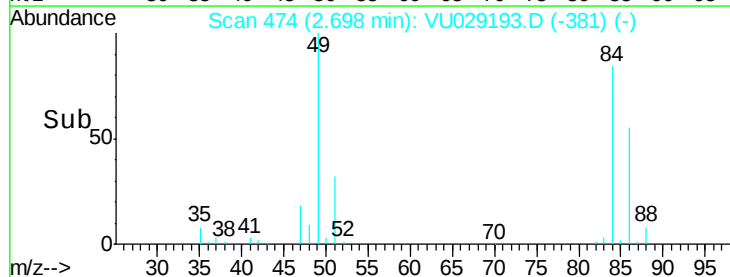
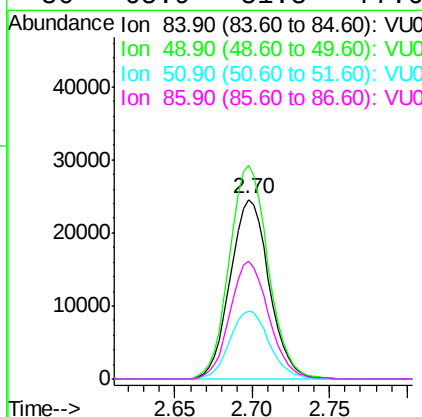
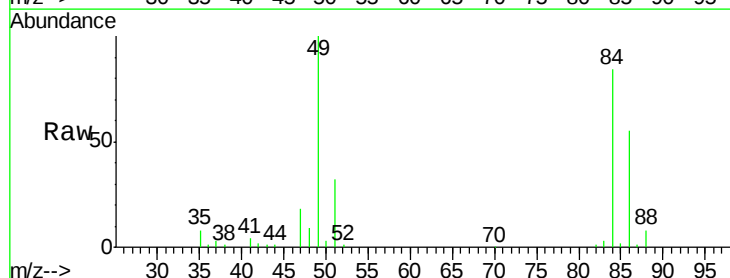
Manual Integrations
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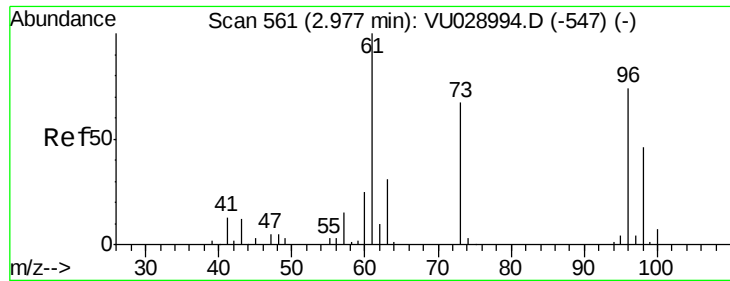
MMDadoda
1/16/2019 9:42:16 AM



#20
Methylene Chloride
Concen: 30.338 ug/l
RT: 2.70 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion: 84 Resp: 42927
Ion Ratio Lower Upper
84 100
49 119.1 91.9 137.9
51 38.1 29.2 43.8
86 65.9 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 29.092 ug/l

RT: 2.98 min Scan# 561

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 96 Resp: 37514

Ion Ratio Lower Upper

96 100

61 143.0 107.7 161.5

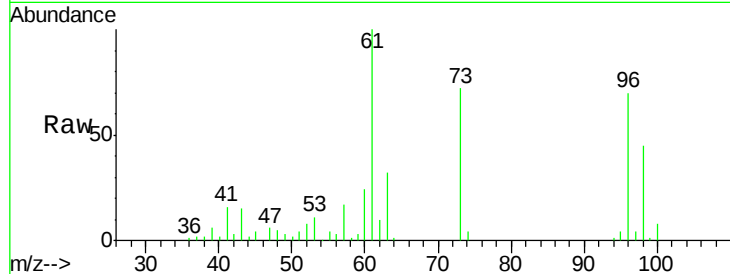
98 63.8 49.2 73.8

Manual Integrations

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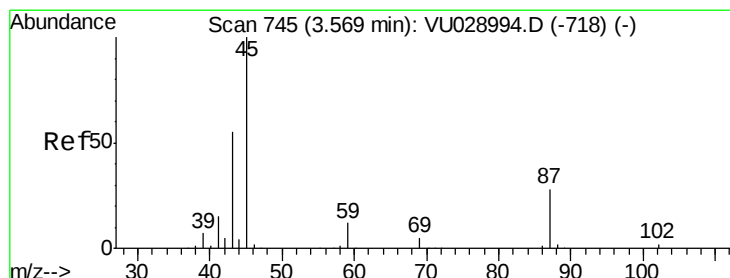
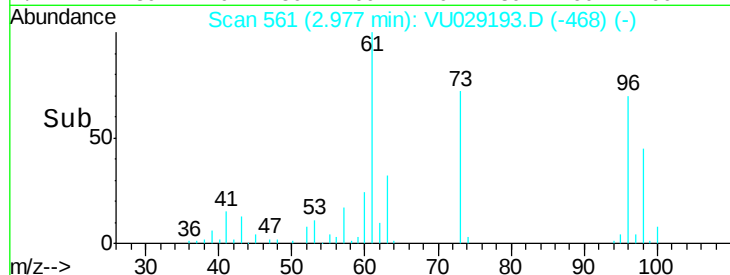
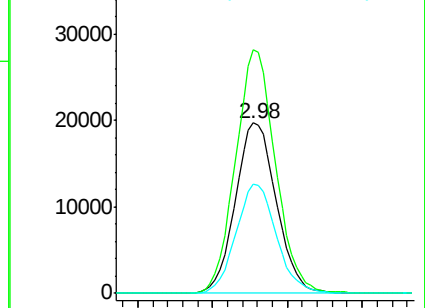
1/16/2019 9:42:16 AM



Abundance Ion 95.90 (95.60 to 96.60): VU029193.D (-468) (-)

Ion 60.90 (60.60 to 61.60): VU029193.D (-468) (-)

Ion 97.90 (97.60 to 98.60): VU029193.D (-468) (-)



#22

Diisopropyl ether

Concen: 33.201 ug/l

RT: 3.57 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Tgt Ion: 45 Resp: 133631

Ion Ratio Lower Upper

45 100

43 58.8 44.7 67.1

87 27.7 22.2 33.2

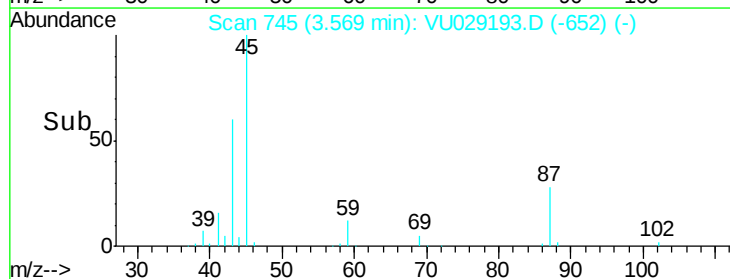
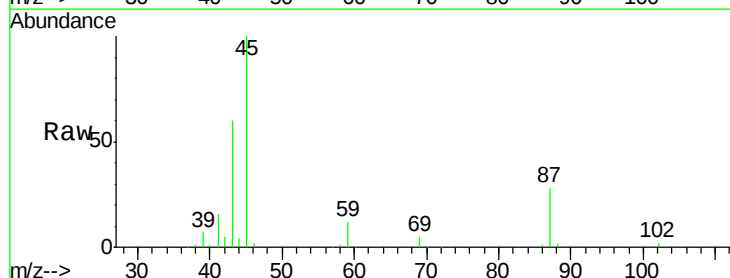
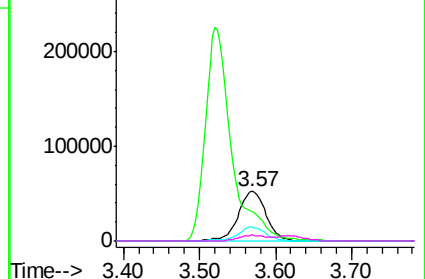
59 11.8 9.8 14.8

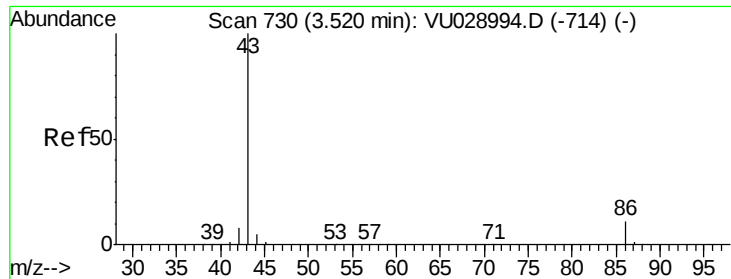
Abundance Ion 45.00 (44.70 to 45.70): VU029193.D (-652) (-)

Ion 43.00 (42.70 to 43.70): VU029193.D (-652) (-)

Ion 87.00 (86.70 to 87.70): VU029193.D (-652) (-)

Ion 59.00 (58.70 to 59.70): VU029193.D (-652) (-)





#23

Vinyl Acetate

Concen: 165.072 ug/l

RT: 3.52 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 543144

Ion Ratio Lower Upper

43 100

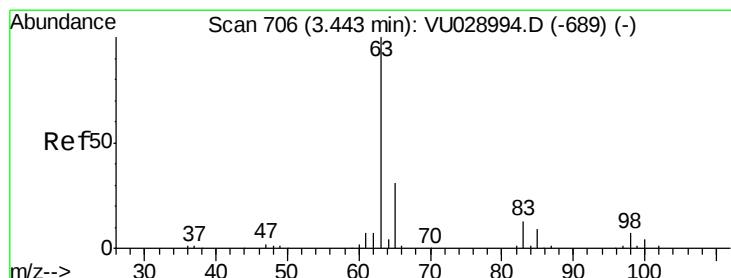
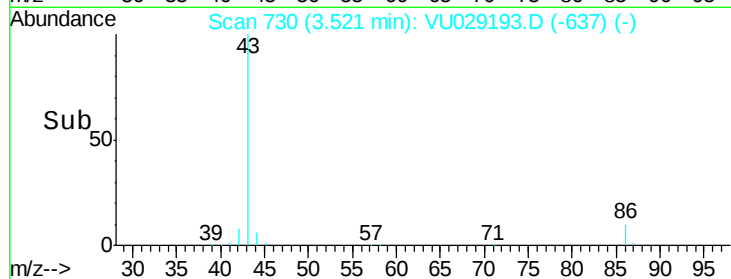
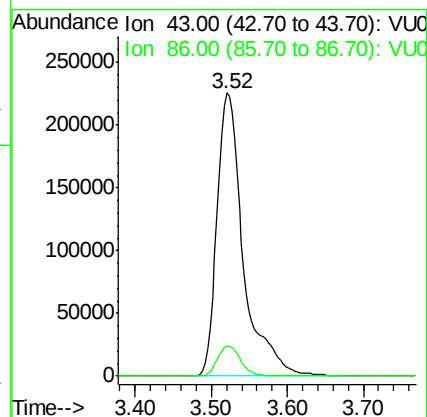
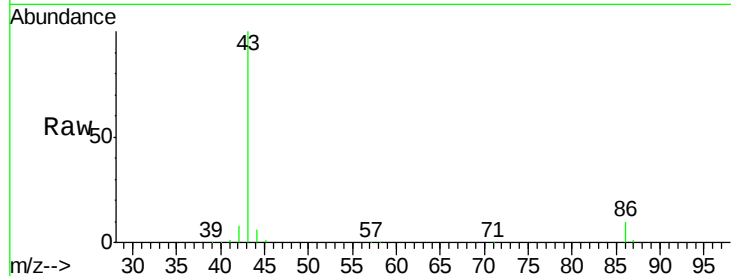
86 10.4 8.6 13.0

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 32.573 ug/l

RT: 3.44 min Scan# 706

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

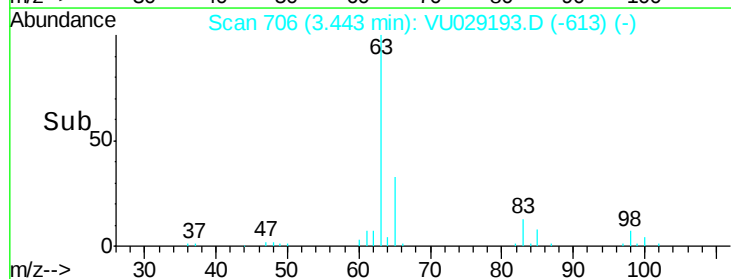
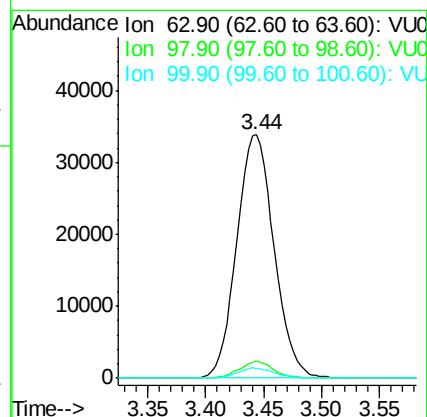
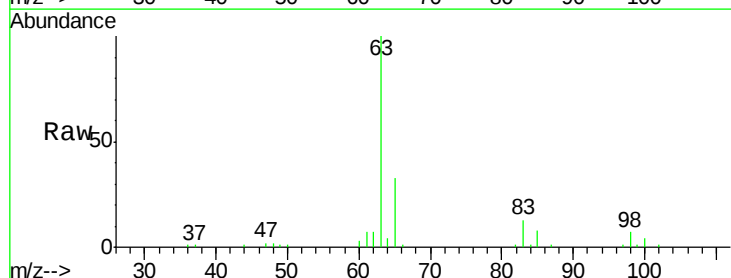
Tgt Ion: 63 Resp: 75682

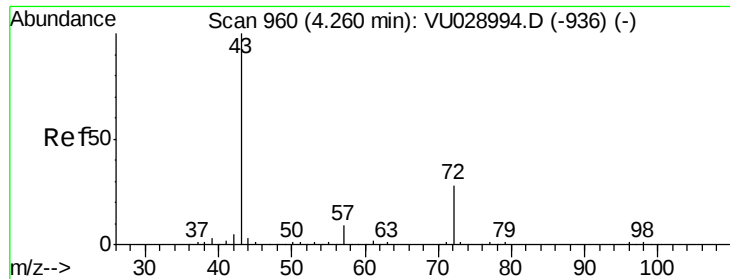
Ion Ratio Lower Upper

63 100

98 6.9 3.4 10.1

100 3.9 2.0 5.8





#25

2-Butanone

Concen: 170.663 ug/l

RT: 4.26 min Scan# 960

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 192101

Ion Ratio Lower Upper

43 100

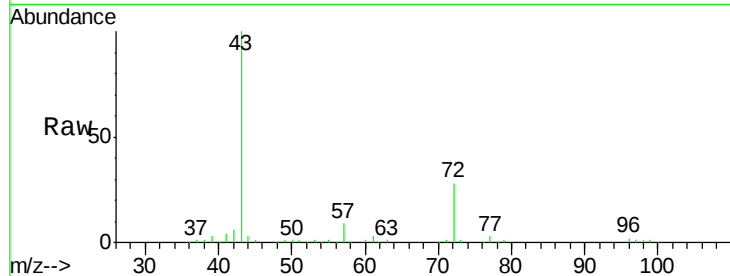
72 27.9 22.6 33.8

Manual Integrations

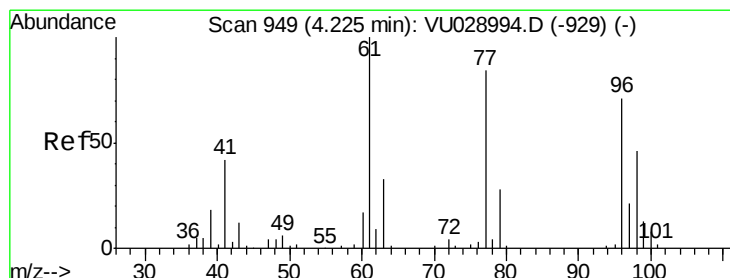
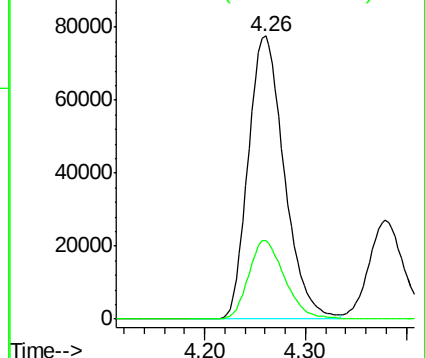
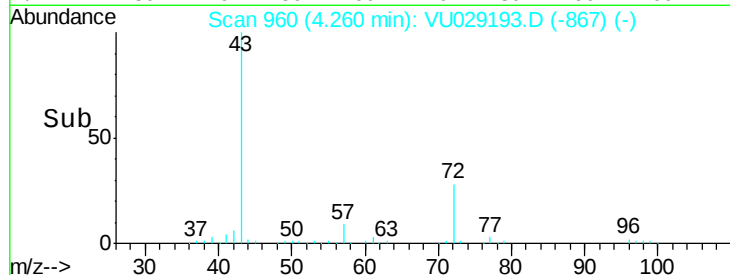
APPROVED

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1/16/2019 9:42:16 AM



Abundance Ion 43.00 (42.70 to 43.70): VU029193.D (-867) (-)



#26

2,2-Dichloropropane

Concen: 30.876 ug/l

RT: 4.22 min Scan# 948

Delta R.T. -0.00 min

Lab File: VU029193.D

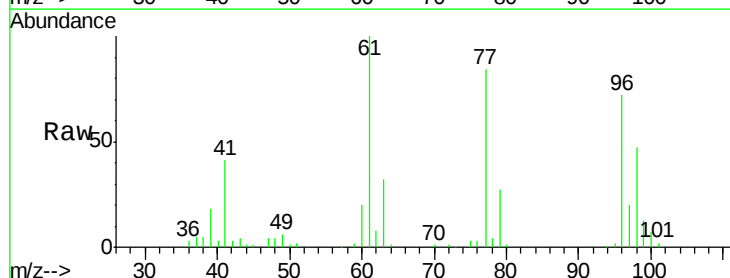
Acq: 15 Jan 2019 18:21

Tgt Ion: 77 Resp: 57967

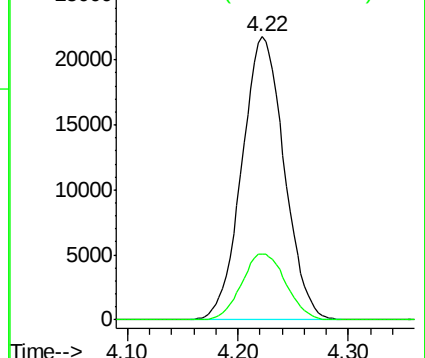
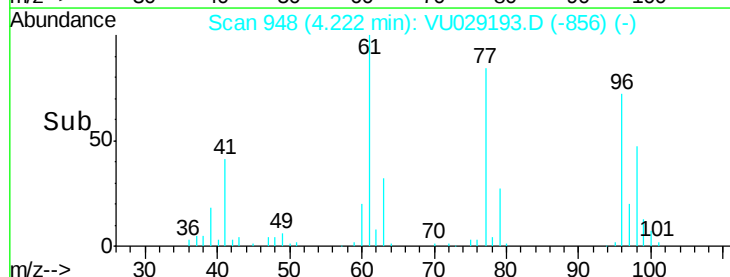
Ion Ratio Lower Upper

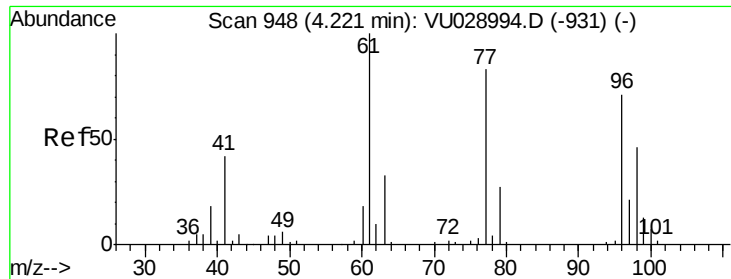
77 100

97 24.3 12.0 36.1



Abundance Ion 76.90 (76.60 to 77.60): VU029193.D (-856) (-)





#27

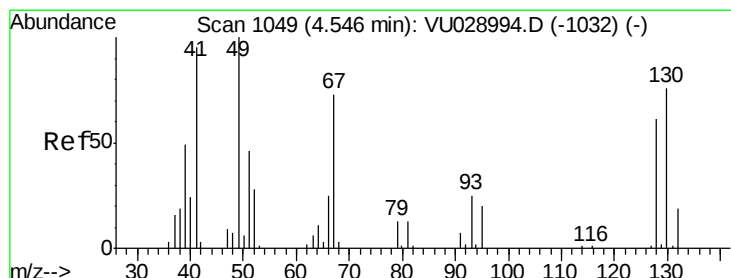
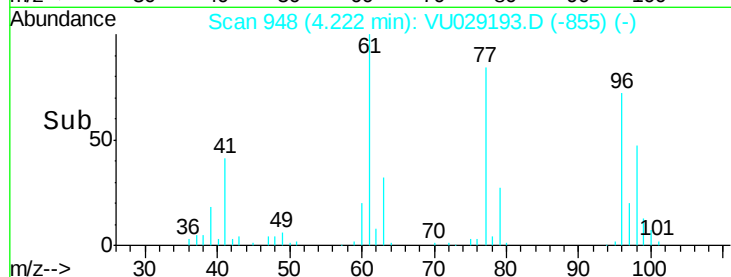
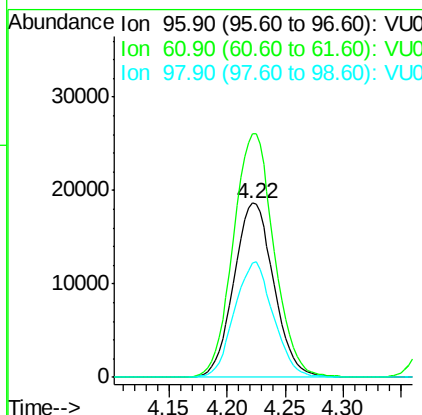
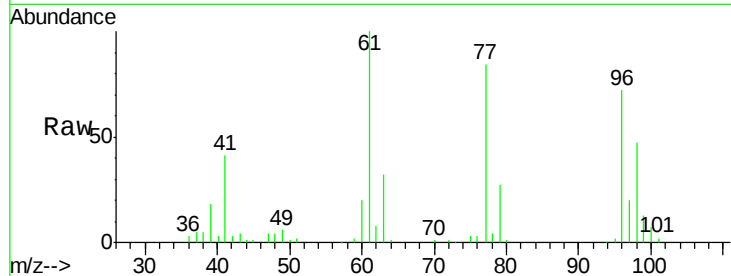
cis-1,2-Dichloroethene
Concen: 31.753 ug/l
RT: 4.22 min Scan# 948
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100	44783		
61	142.7	0.0	285.6	
98	64.5	0.0	130.2	

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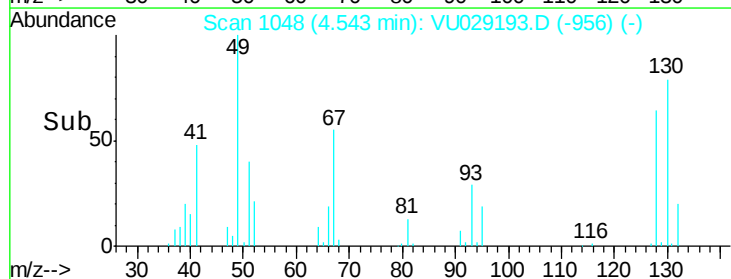
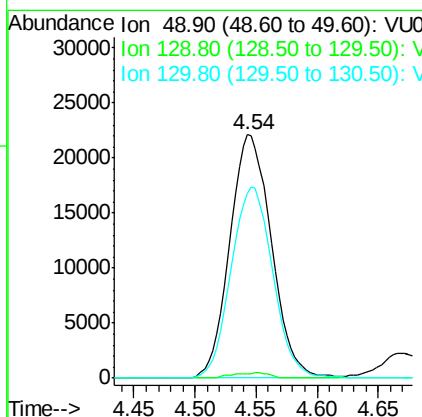
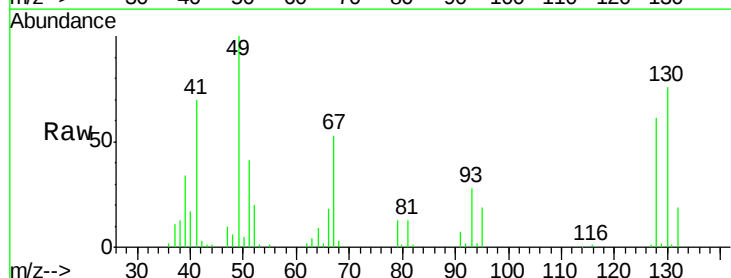
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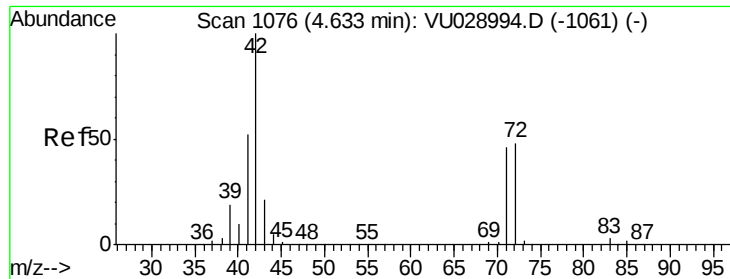


#28

Bromochloromethane
Concen: 52.667 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. -0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	52398		
129	1.9	0.0	3.4	
130	78.7	62.9	94.3	





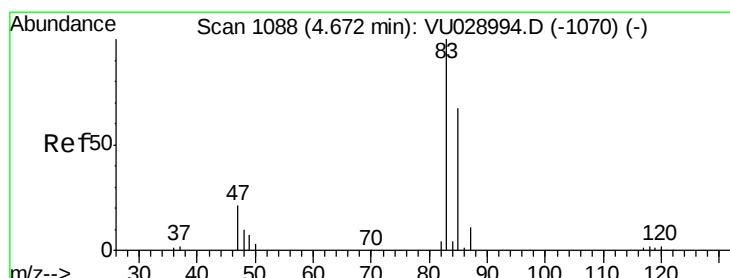
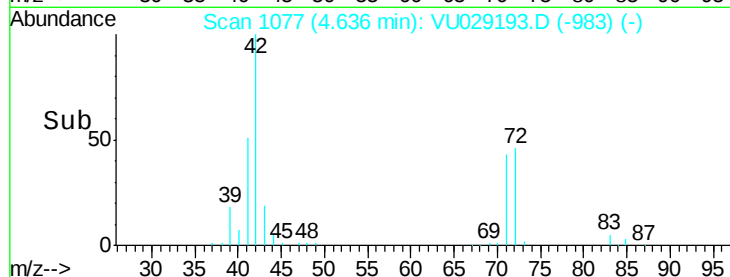
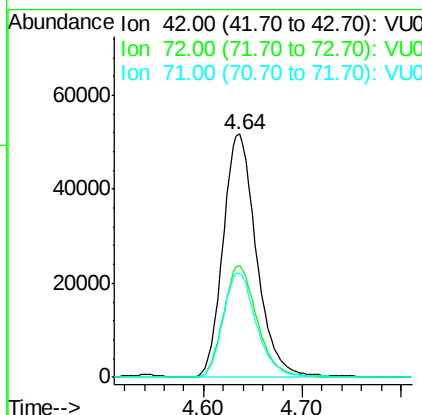
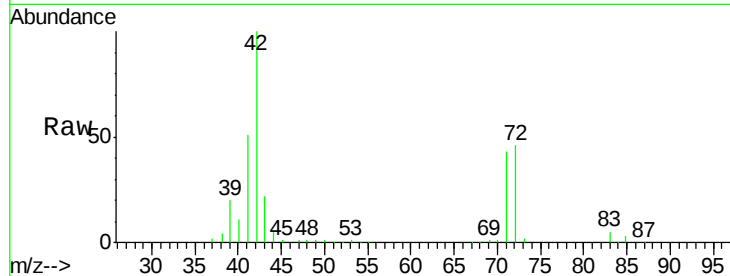
#29
Tetrahydrofuran
Concen: 179.423 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.4	38.3	57.5
71	43.1	36.1	54.1

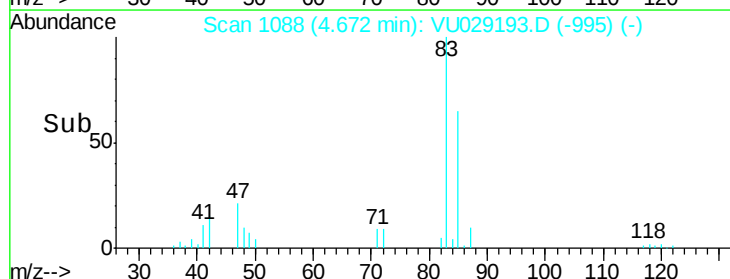
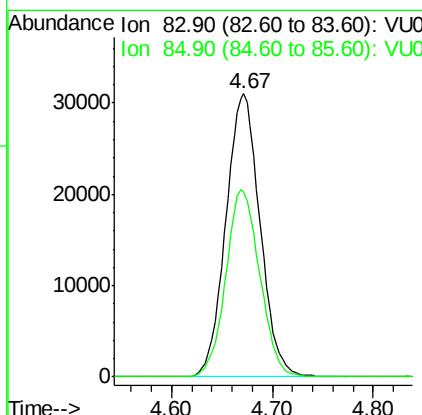
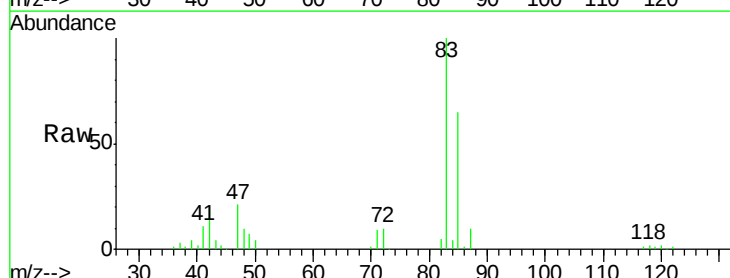
Manual Integrations
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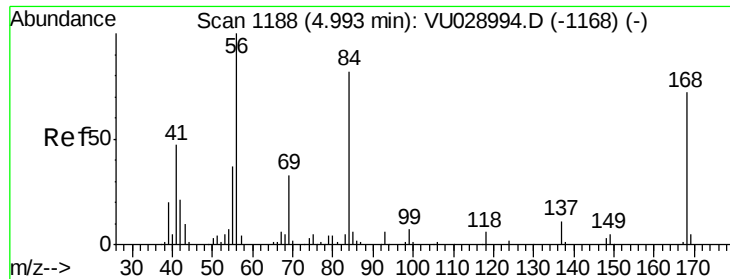
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#30
Chloroform
Concen: 33.002 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	53.4	80.0





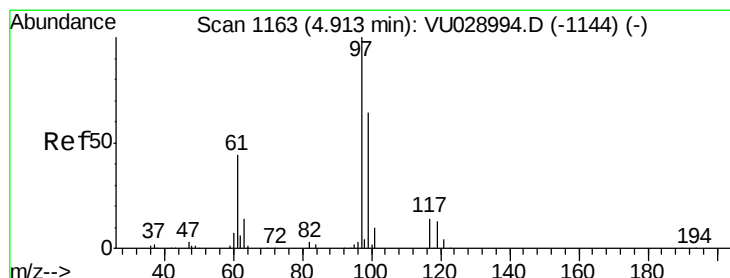
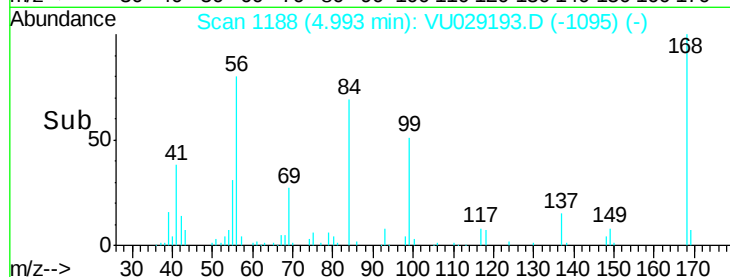
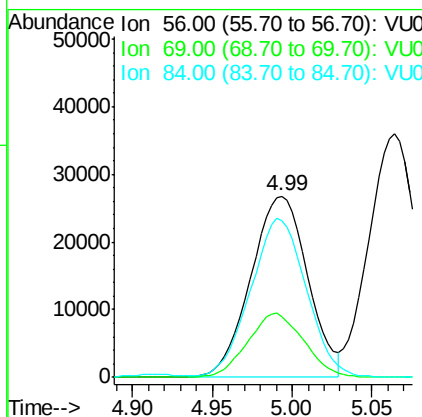
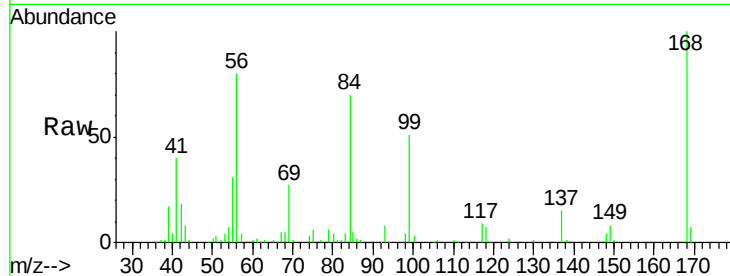
#31
Cyclohexane
Concen: 29.503 ug/l
RT: 4.99 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.8	26.7	40.1
84	86.3	65.7	98.5

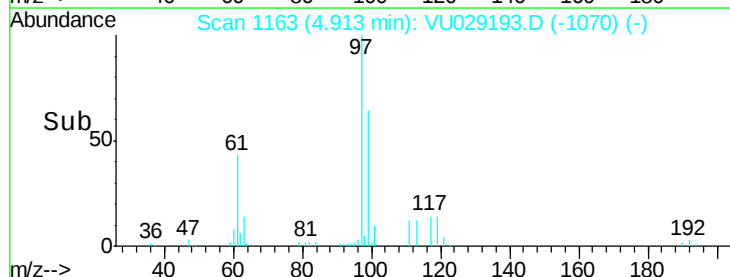
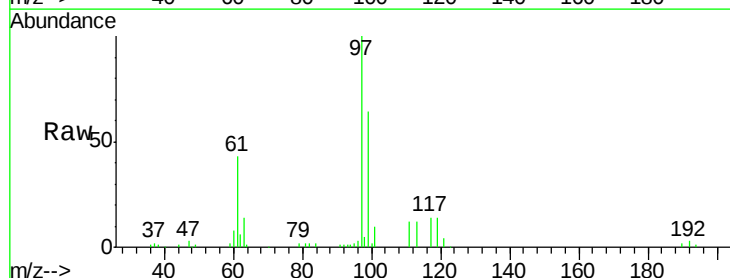
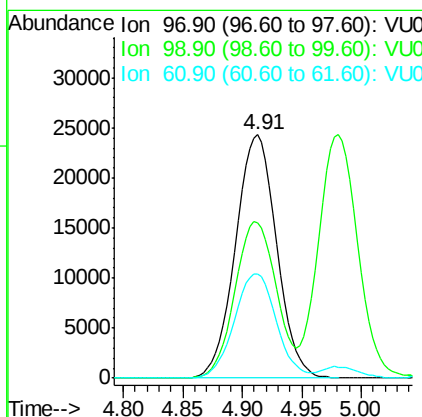
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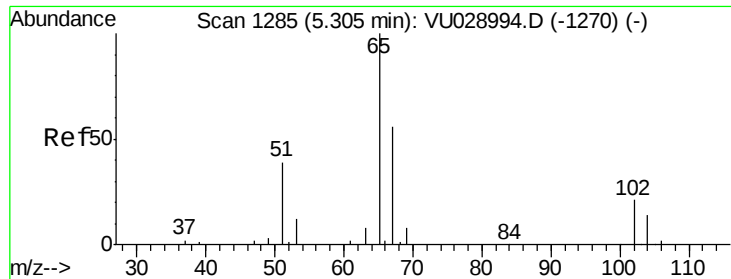
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#32
1,1,1-Trichloroethane
Concen: 31.855 ug/l
RT: 4.91 min Scan# 1163
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.0	76.4
61	43.9	34.4	51.6





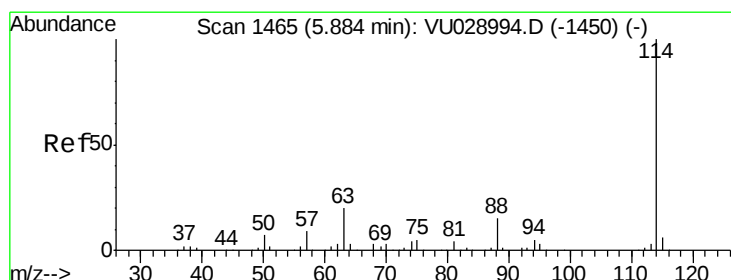
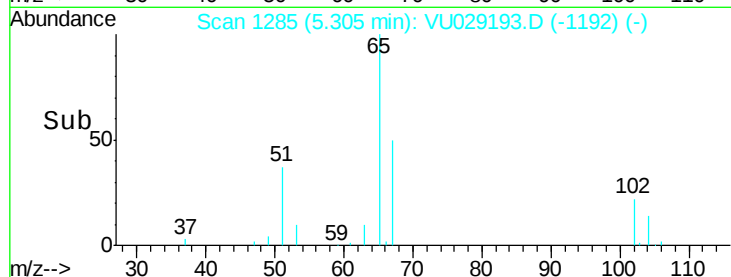
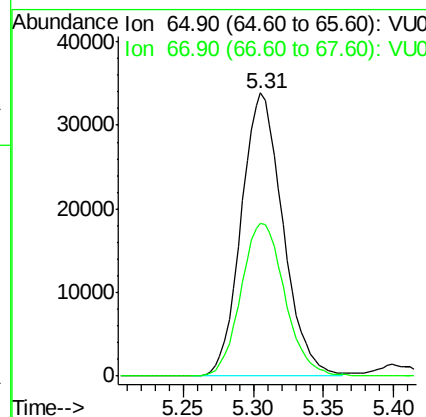
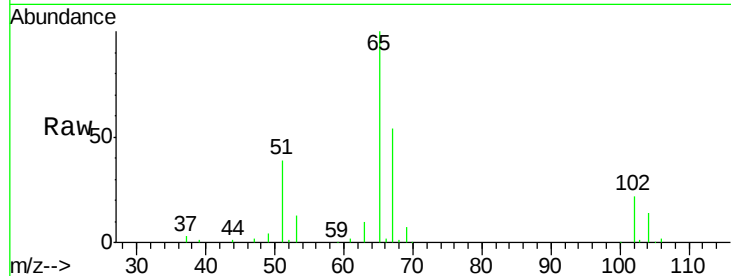
#33
 1,2-Dichloroethane-d4
 Concen: 52.940 ug/l
 RT: 5.31 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
65	100		
67	56.7	0.0	111.0

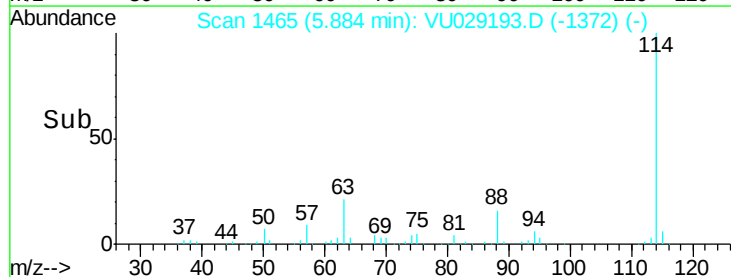
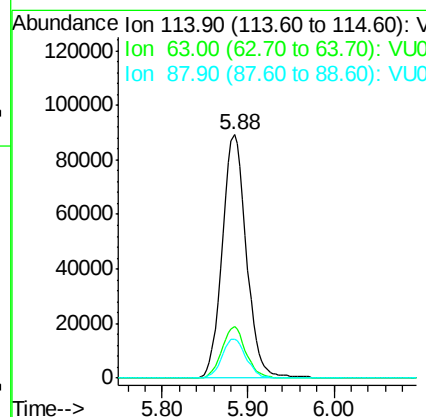
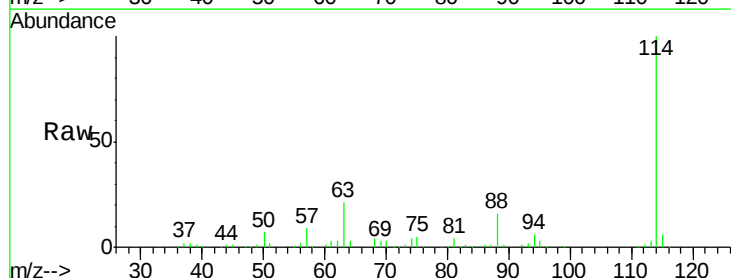
Manual Integrations
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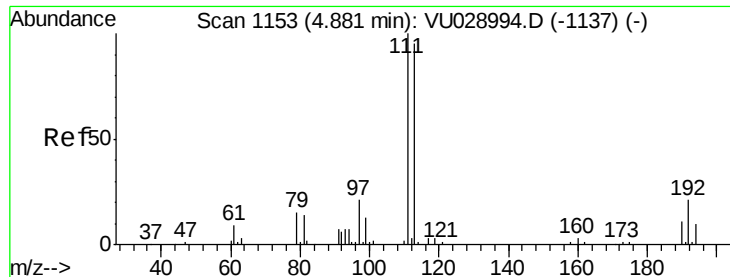
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	40.2
88	16.1	0.0	30.4





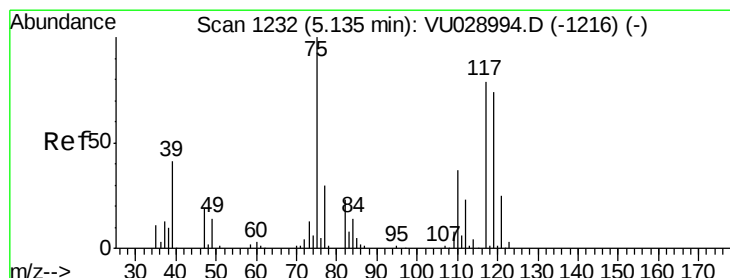
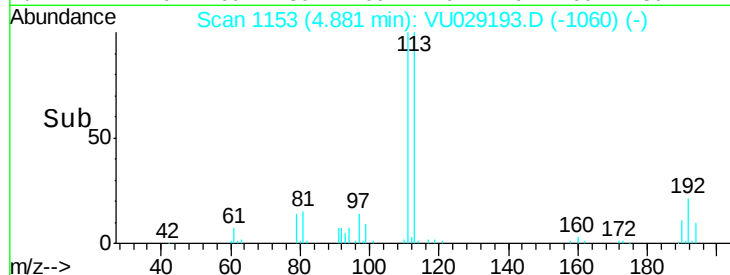
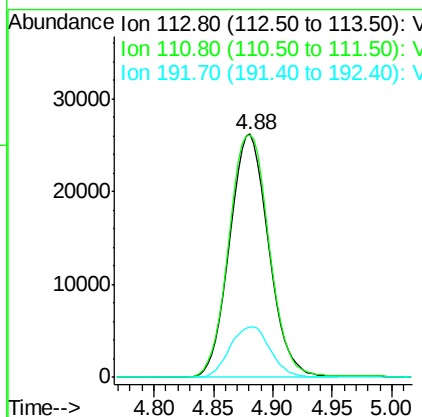
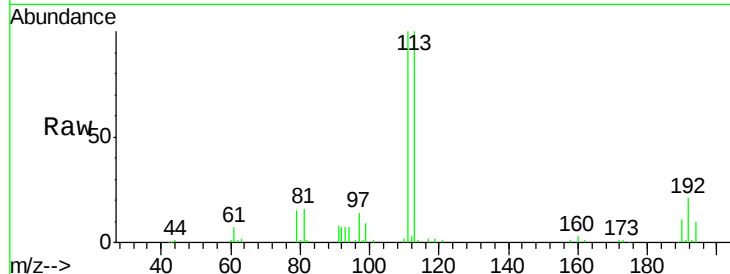
#35
 Dibromofluoromethane
 Concen: 52.614 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	59578		
111	103.5		81.4	122.2
192	21.3		16.8	25.2

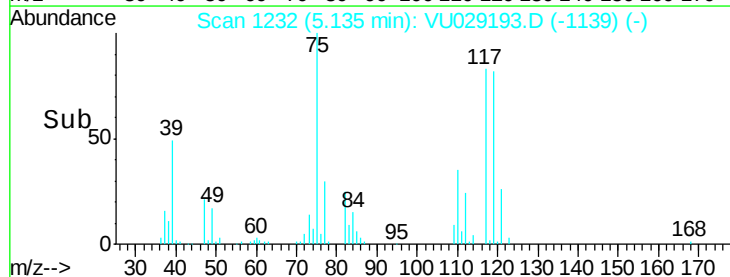
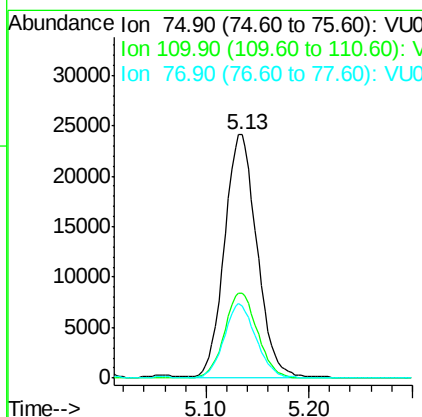
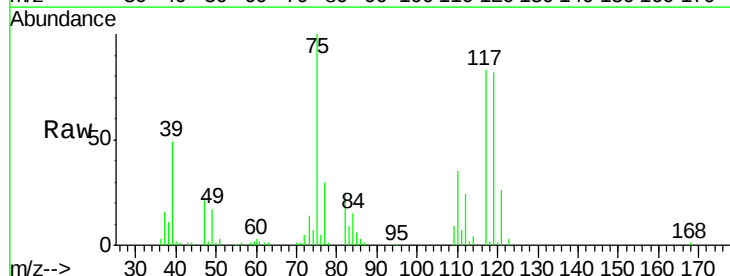
Manual Integrations
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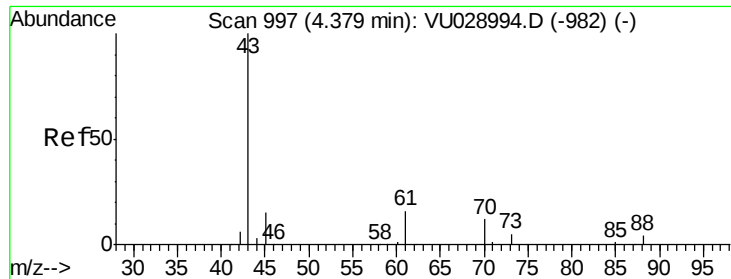
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#36
 1,1-Dichloropropene
 Concen: 30.514 ug/l
 RT: 5.13 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	53280		
110	35.1		18.4	55.4
77	29.7		25.1	37.7





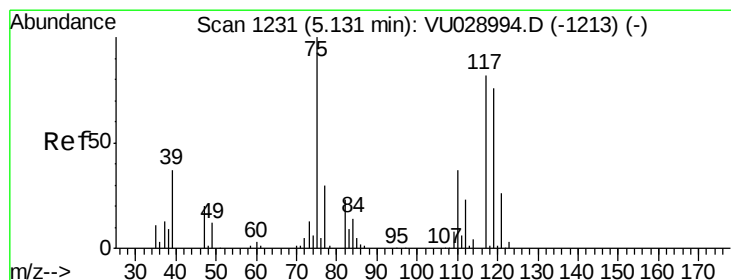
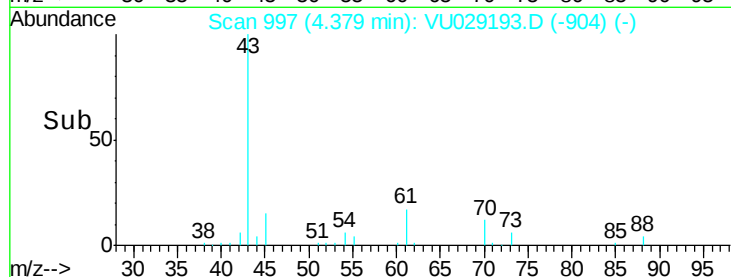
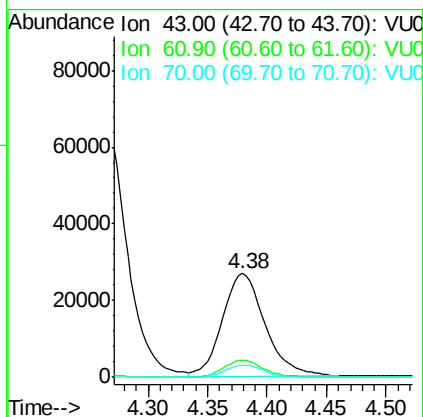
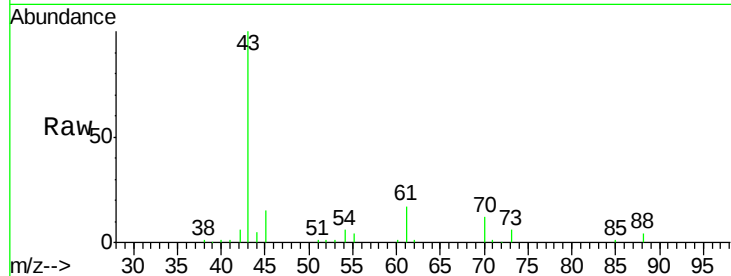
#37
Ethyl Acetate
Concen: 34.481 ug/l
RT: 4.38 min Scan# 997
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.9	12.6	18.8
70	11.2	9.3	13.9

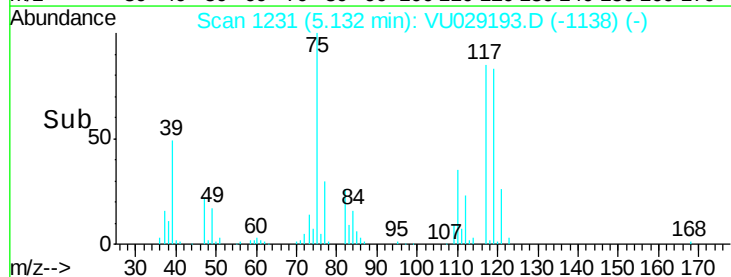
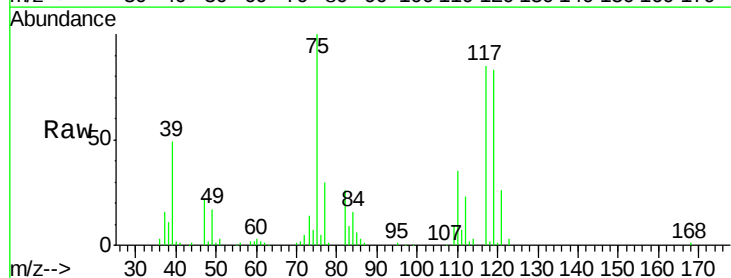
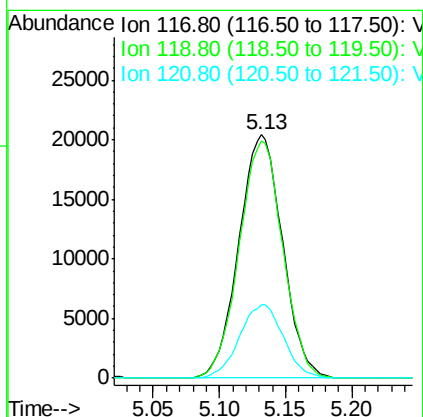
Manual Integrations
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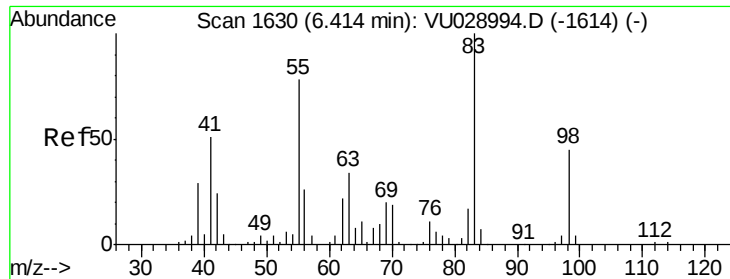
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#38
Carbon Tetrachloride
Concen: 32.127 ug/l
RT: 5.13 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.5	74.6	111.8
121	30.2	25.0	37.6





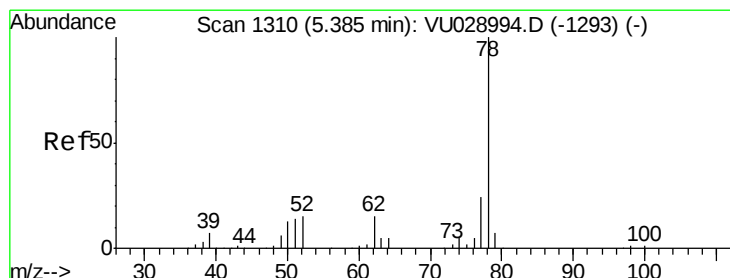
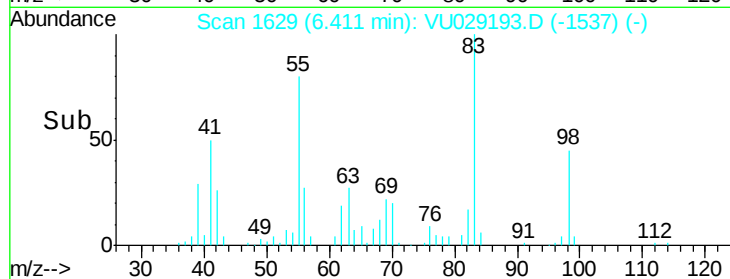
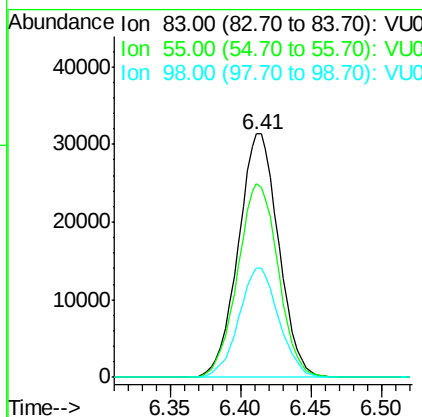
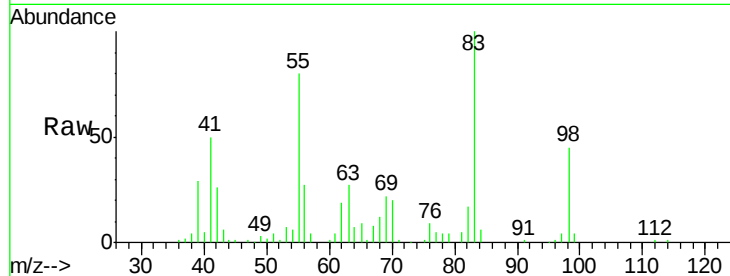
#39
Methvlcvclohexane
Concen: 29.212 ug/l
RT: 6.41 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.8	62.4	93.6
98	44.8	36.2	54.2

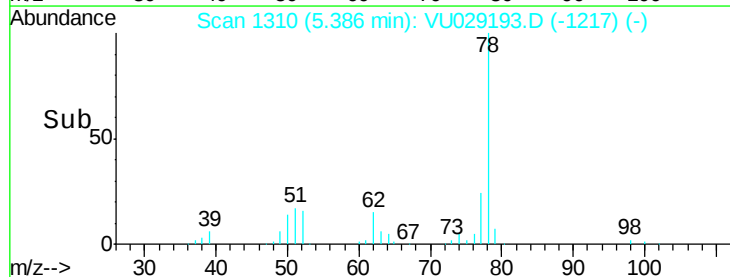
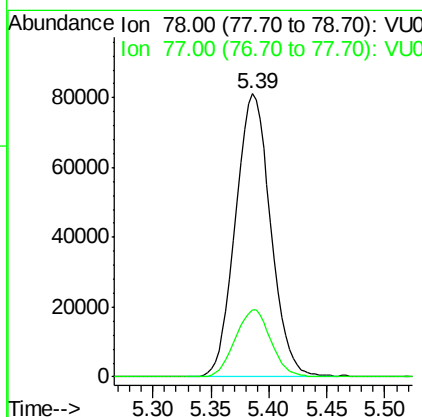
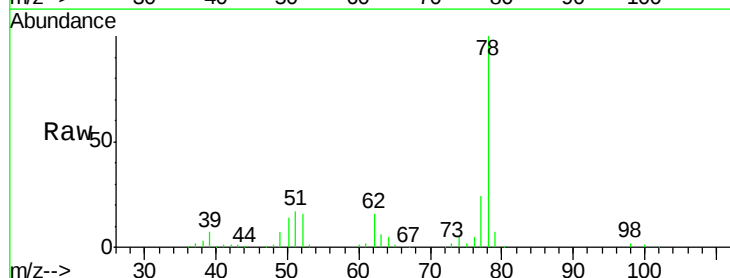
Manual Integrations
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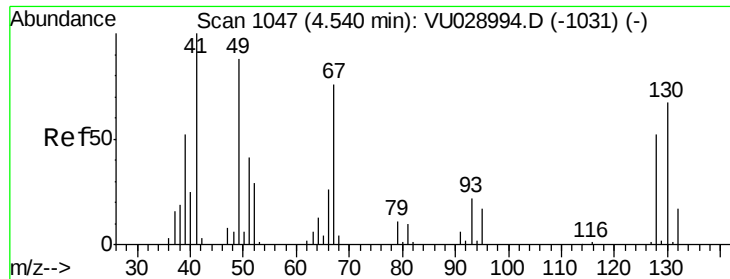
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#40
Benzene
Concen: 31.404 ug/l
RT: 5.39 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.9	28.3





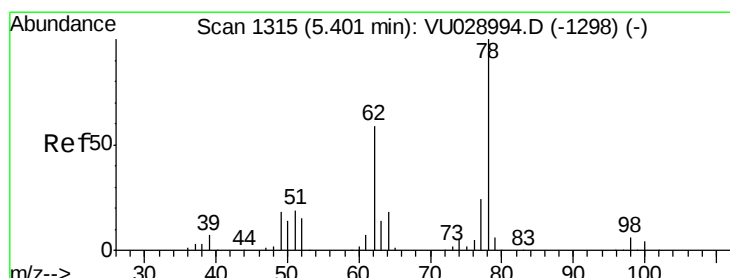
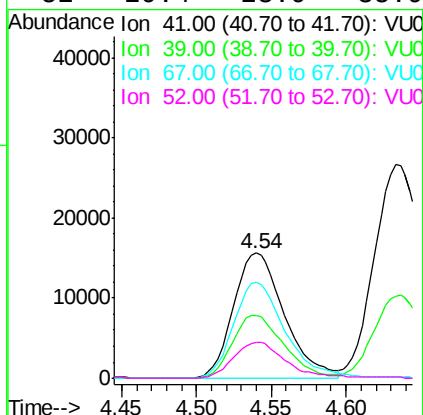
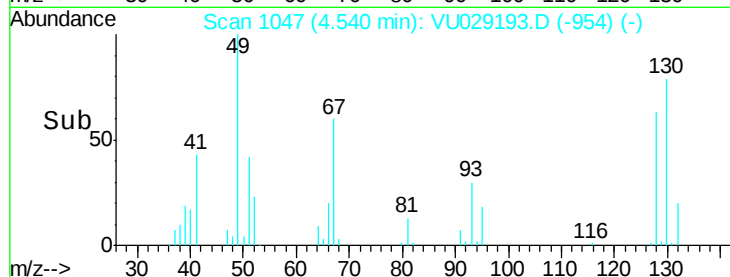
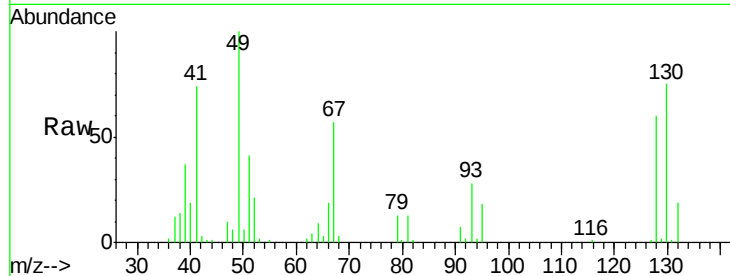
#41
Methacrylonitrile
Concen: 36.076 ug/l
RT: 4.54 min Scan# 1047
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	50.8	42.3	63.5	
67	78.2	64.4	96.6	
52	29.4	23.9	35.9	

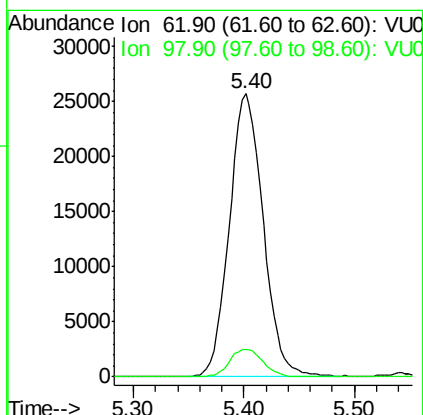
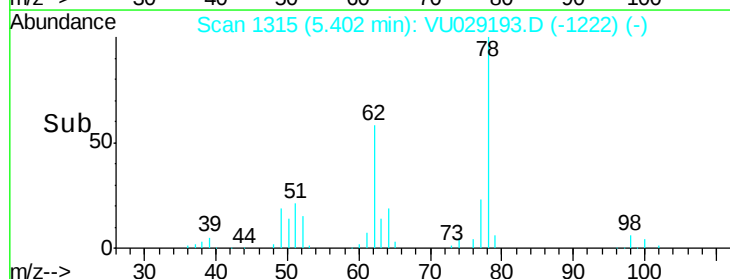
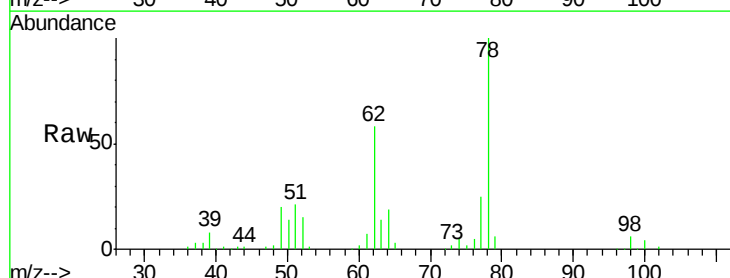
Manual Integrations
APPROVED

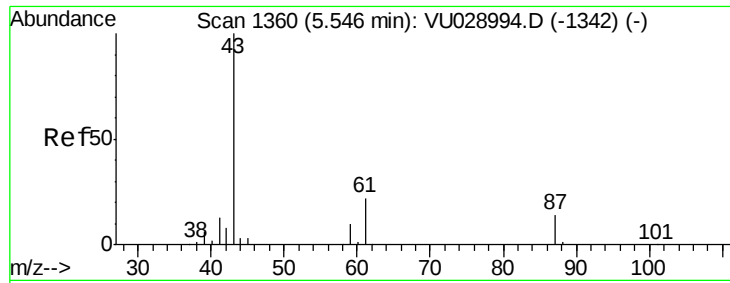
MMDadoda
1/16/2019 9:42:16 AM



#42
1,2-Dichloroethane
Concen: 33.451 ug/l
RT: 5.40 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.6	0.0	19.6	





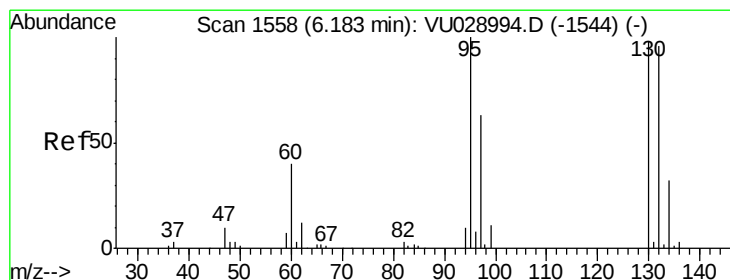
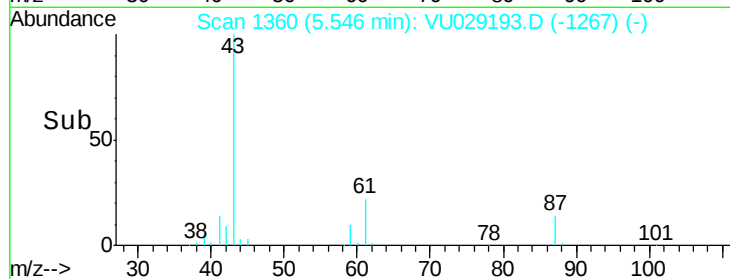
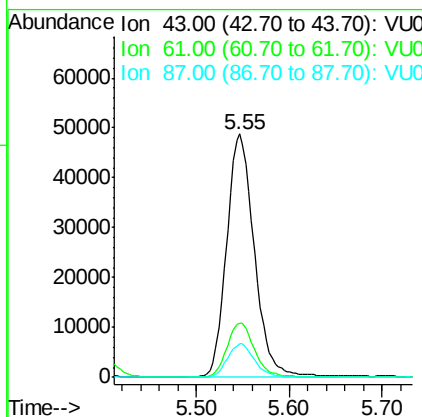
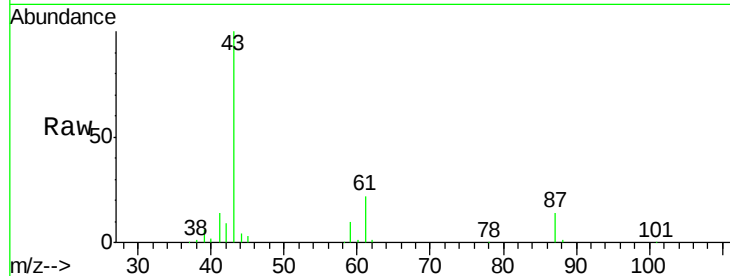
#43
Isopropyl Acetate
Concen: 34.525 ug/l
RT: 5.55 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	22.1	17.8	26.6
87	13.4	11.3	16.9

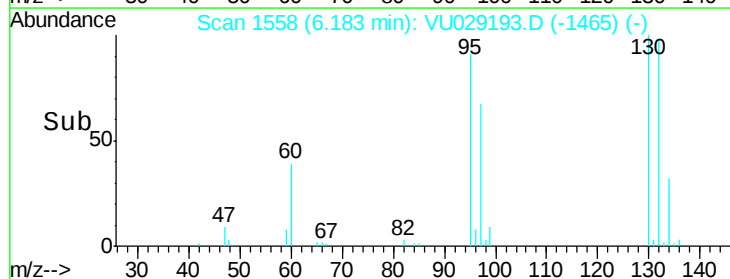
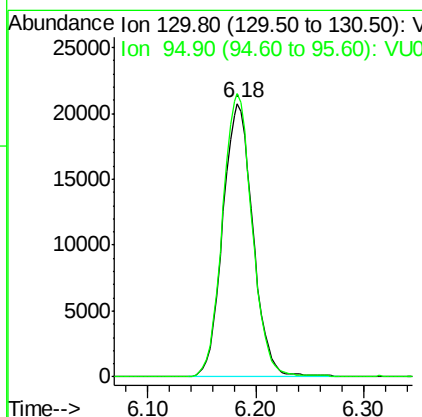
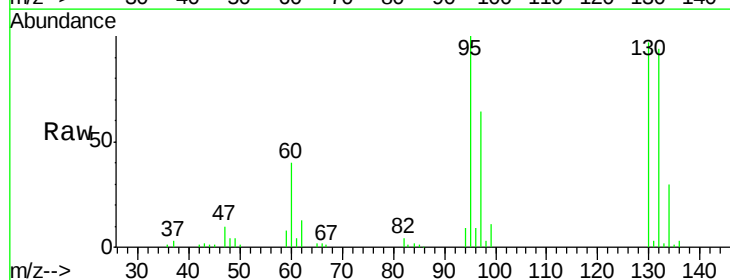
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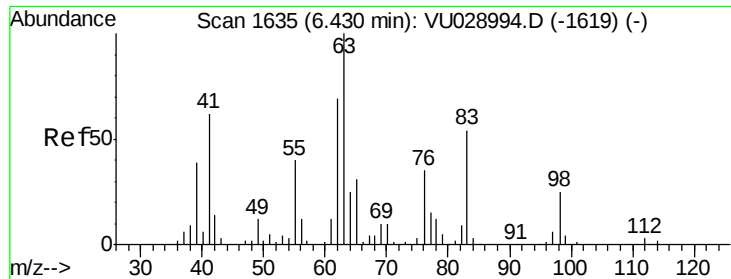
MMDadoda
1/16/2019 9:42:16 AM



#44
Trichloroethene
Concen: 29.915 ug/l
RT: 6.18 min Scan# 1558
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.6	0.0	205.0





#45

1,2-Dichloropropane

Concen: 32.840 ug/l

RT: 6.43 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 47233

Ion Ratio Lower Upper

63 100

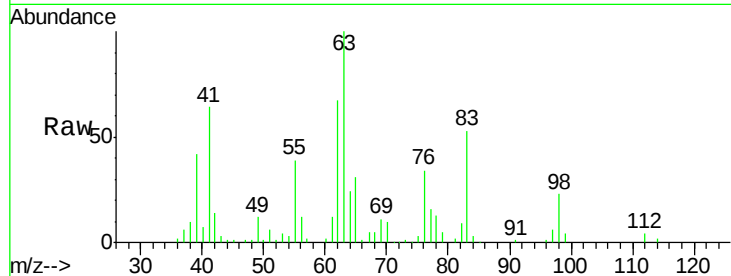
65 30.9 25.1 37.7

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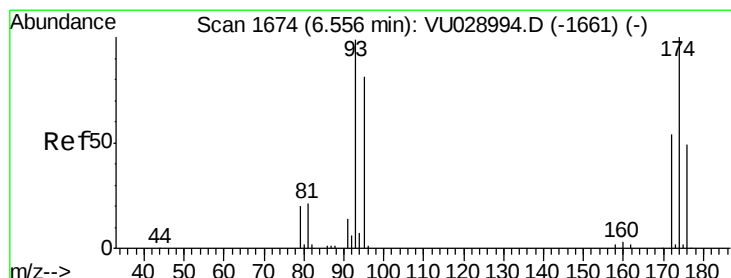
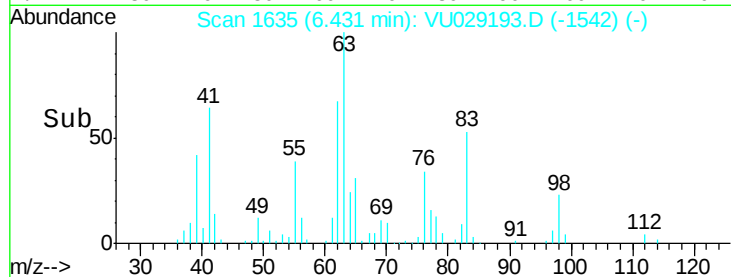
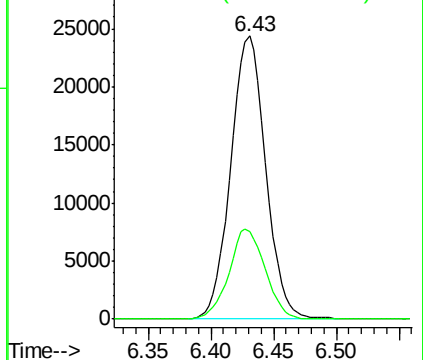
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Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



#46

Dibromomethane

Concen: 32.580 ug/l

RT: 6.56 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

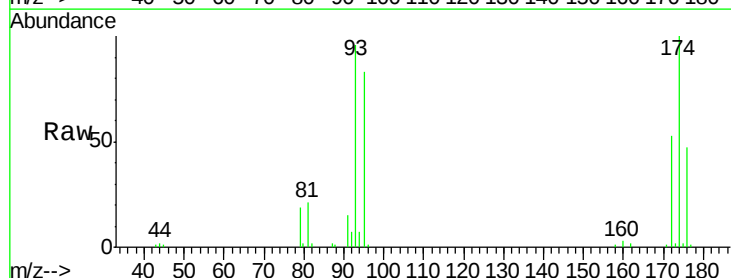
Tgt Ion: 93 Resp: 29955

Ion Ratio Lower Upper

93 100

95 83.9 67.2 100.8

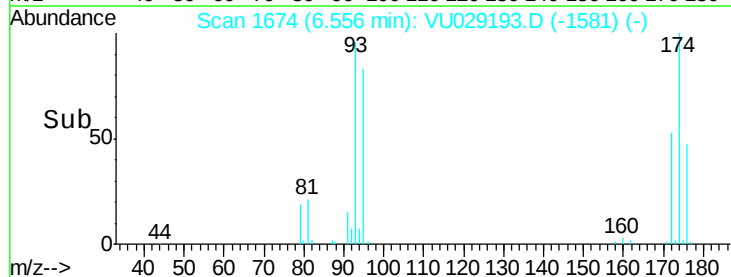
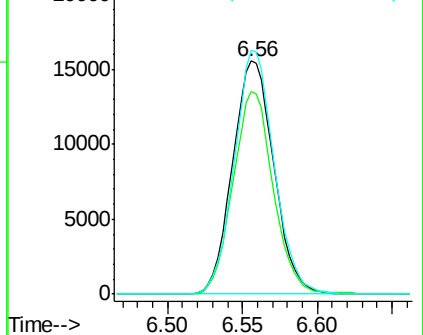
174 100.9 82.6 123.8



Abundance Ion 92.80 (92.50 to 93.50): VU0

Ion 94.80 (94.50 to 95.50): VU0

Ion 173.70 (173.40 to 174.40): V





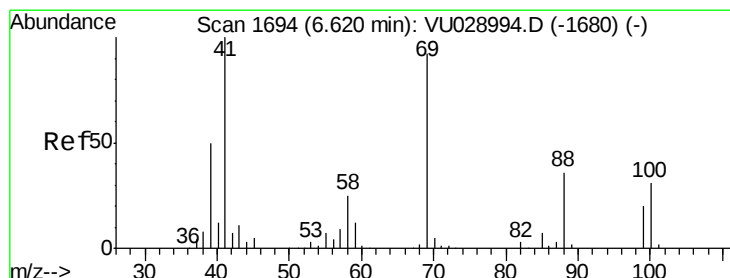
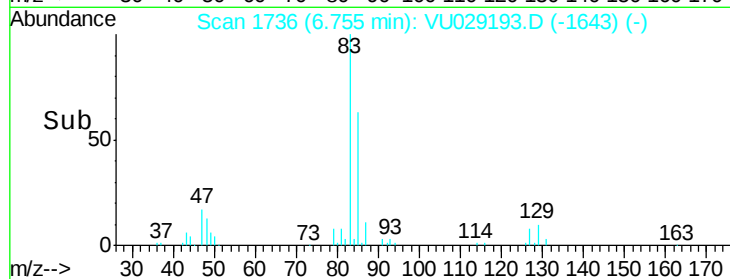
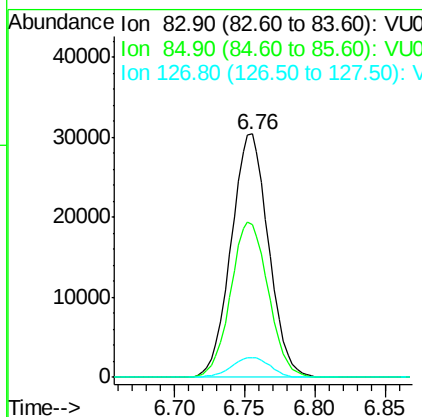
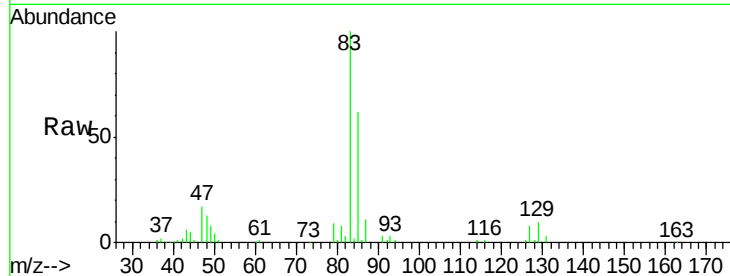
#47
 Bromodichloromethane
 Concen: 33.286 ug/l
 RT: 6.76 min Scan# 1736
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	83	Resp	56348
Ion Ratio	100	Lower	Upper
83	100		
85	62.5	51.4	77.2
127	8.1	7.0	10.4

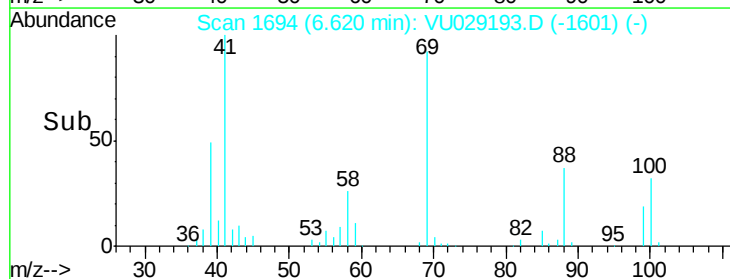
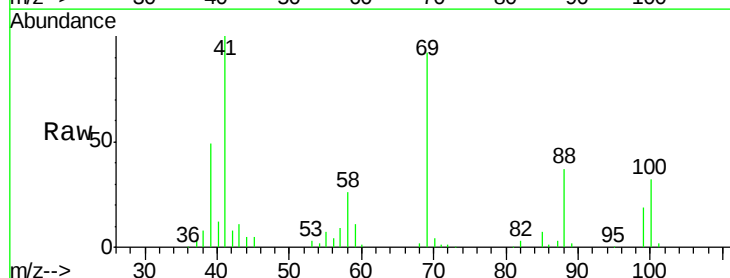
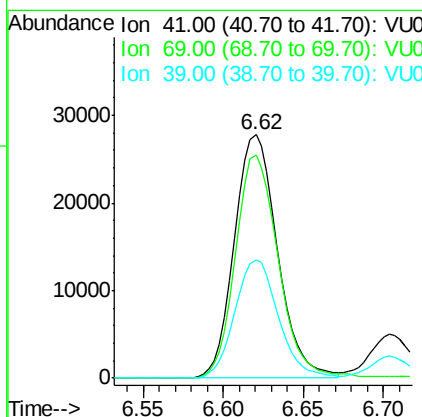
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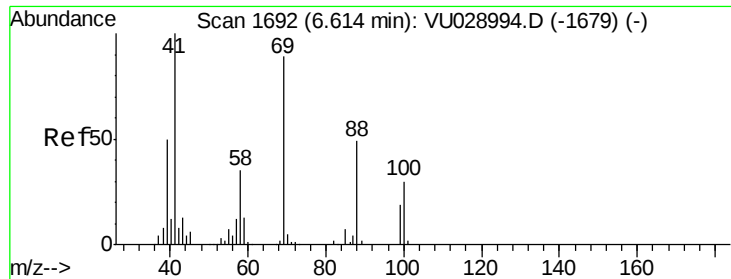
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 1/16/2019 9:42:16 AM



#48
 Methyl methacrylate
 Concen: 35.789 ug/l
 RT: 6.62 min Scan# 1694
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Tgt Ion	41	Resp	51234
Ion Ratio	100	Lower	Upper
41	100		
69	91.2	73.6	110.4
39	49.0	39.6	59.4





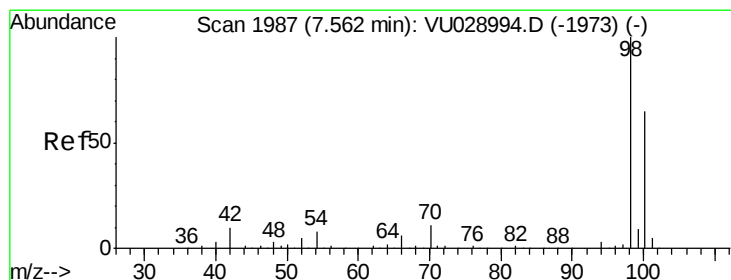
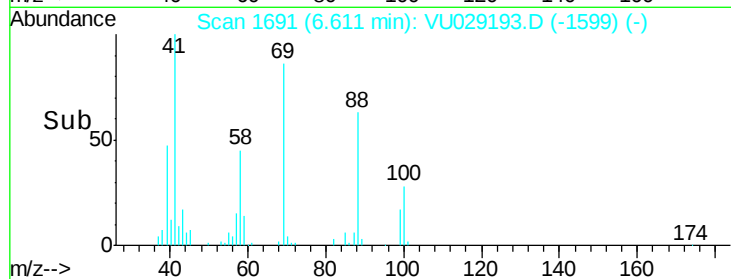
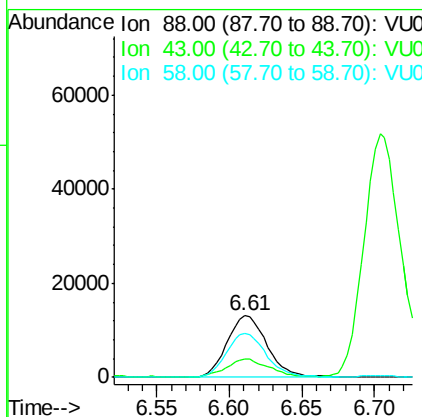
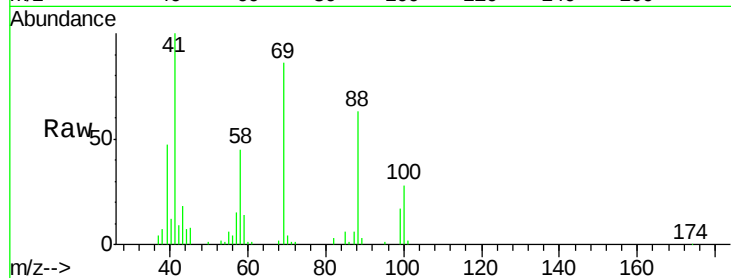
#49
1,4-Dioxane
Concen: 742.439 ug/l
RT: 6.61 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.0	23.0	34.4
58	71.4	57.9	86.9

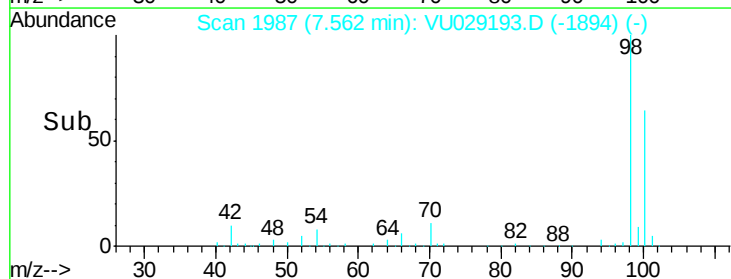
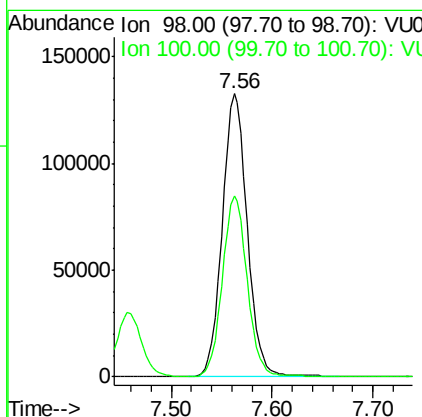
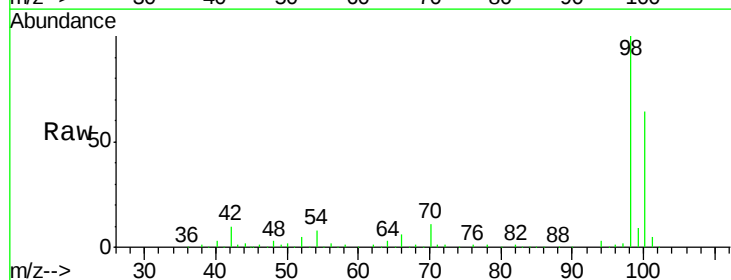
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#50
Toluene-d8
Concen: 51.476 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.2	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 178.251 ug/l

RT: 7.46 min Scan# 1954

Delta R.T. -0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 356654

Ion Ratio Lower Upper

43 100

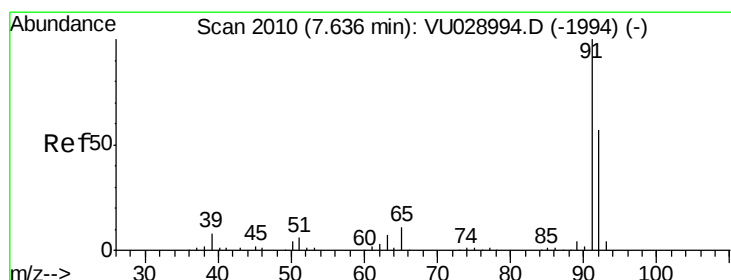
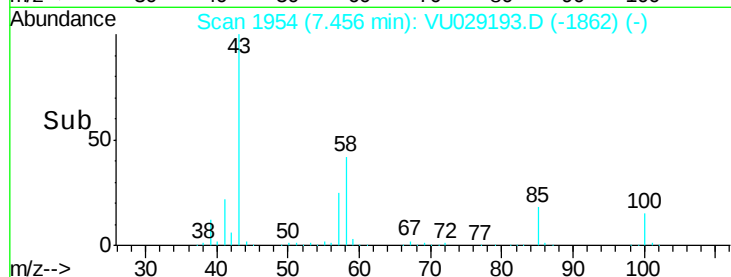
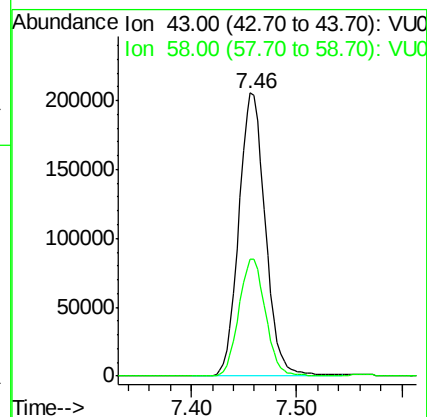
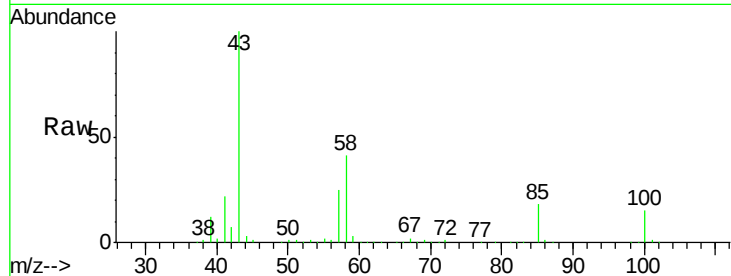
58 41.8 33.9 50.9

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#52

Toluene

Concen: 31.219 ug/l

RT: 7.63 min Scan# 2009

Delta R.T. -0.00 min

Lab File: VU029193.D

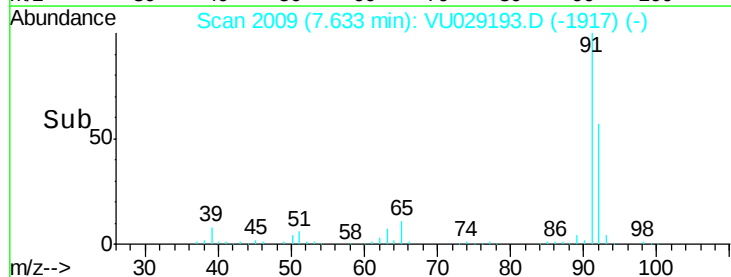
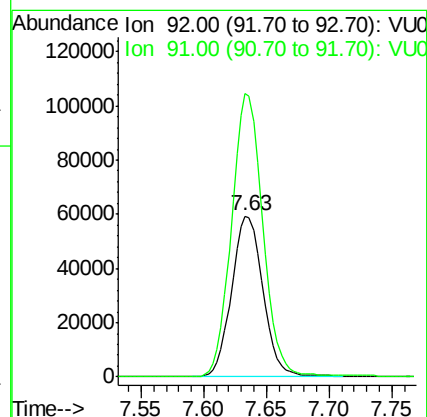
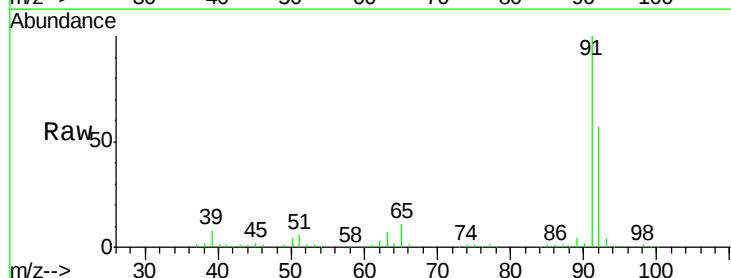
Acq: 15 Jan 2019 18:21

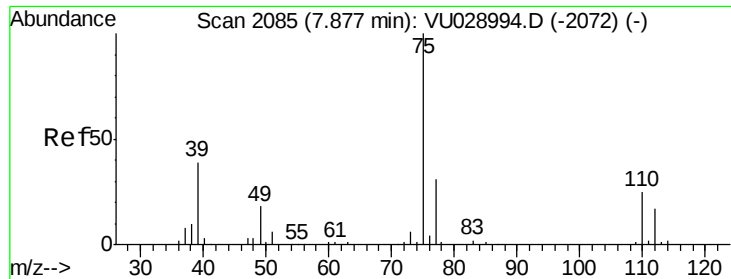
Tgt Ion: 92 Resp: 103511

Ion Ratio Lower Upper

92 100

91 174.3 139.8 209.8





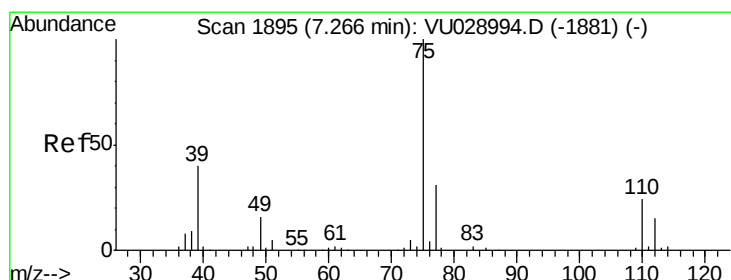
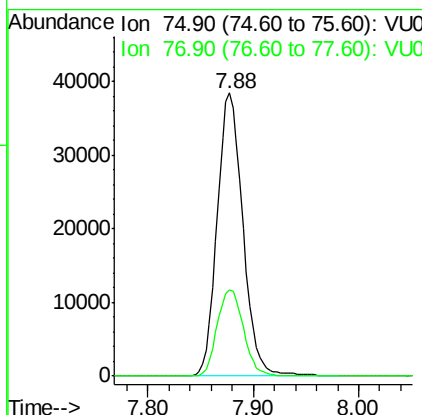
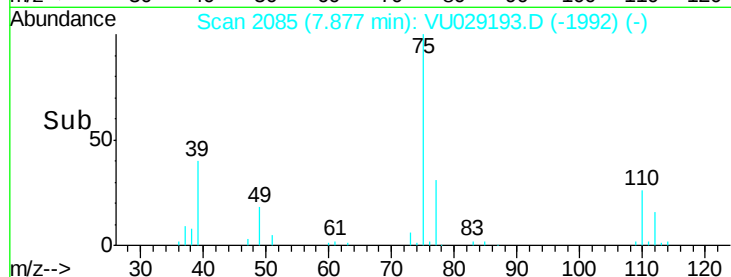
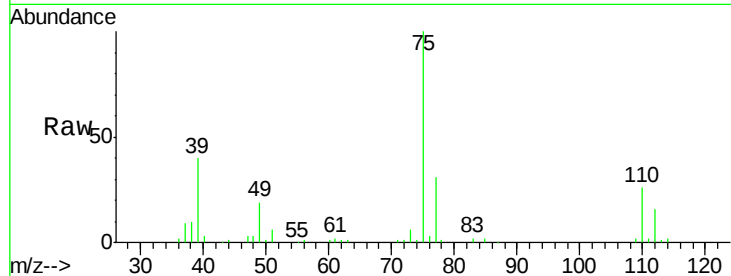
#53
t-1,3-Dichloropropene
Concen: 32.001 ug/l
RT: 7.88 min Scan# 2085
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion: 75 Resp: 65076
Ion Ratio Lower Upper
75 100
77 30.7 25.0 37.4

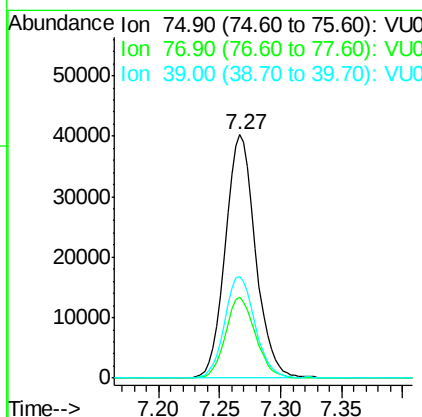
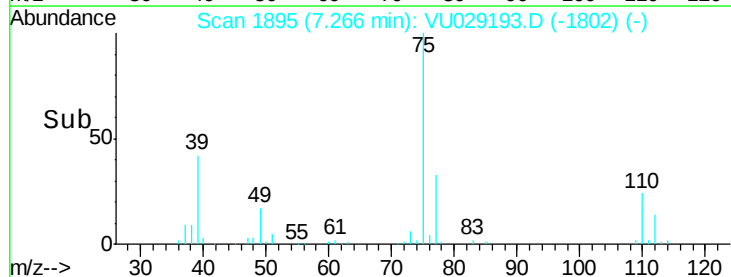
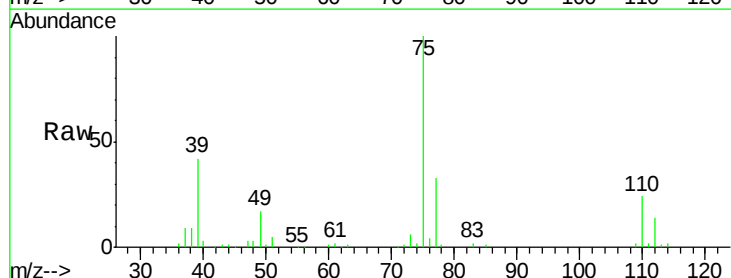
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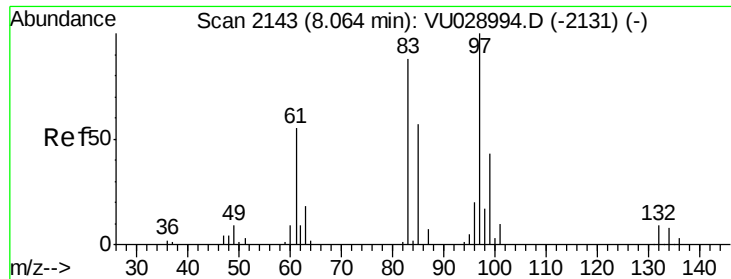
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#54
cis-1,3-Dichloropropene
Concen: 31.836 ug/l
RT: 7.27 min Scan# 1895
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion: 75 Resp: 69955
Ion Ratio Lower Upper
75 100
77 33.1 25.0 37.6
39 41.8 32.2 48.4





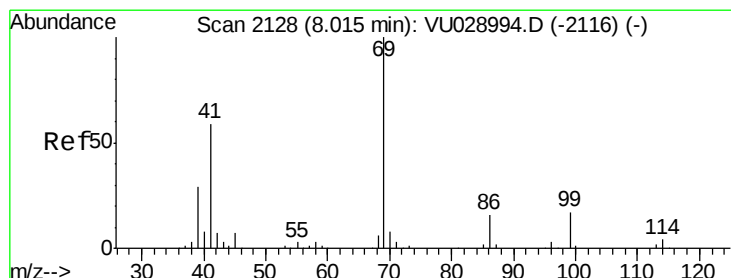
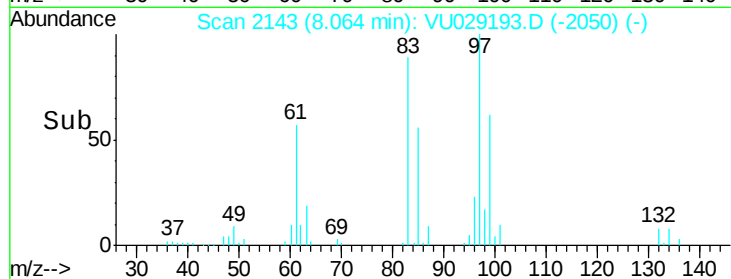
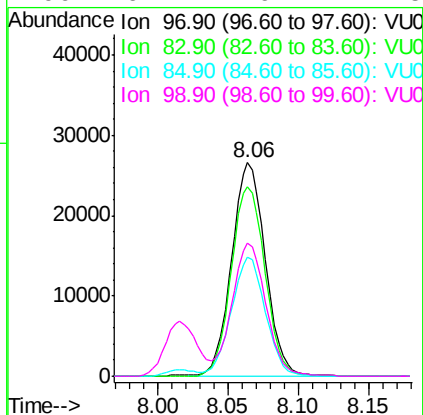
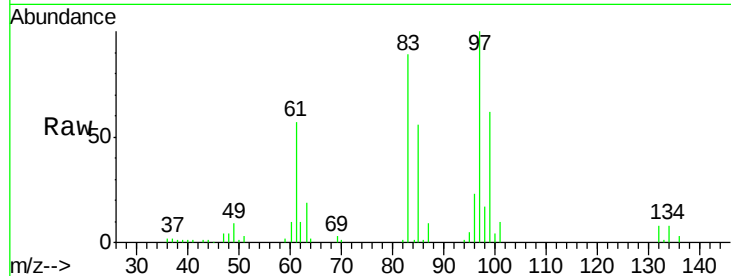
#55
1,1,2-Trichloroethane
Concen: 33.550 ug/l
RT: 8.06 min Scan# 2143
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion:	97	Resp:	44564
Ion	Ratio	Lower	Upper
97	100		
83	88.7	69.8	104.8
85	56.0	47.3	70.9
99	62.2	49.7	74.5

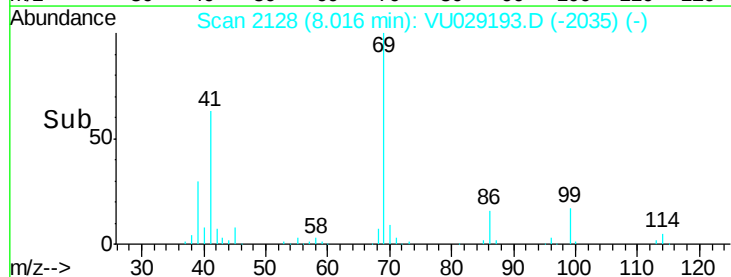
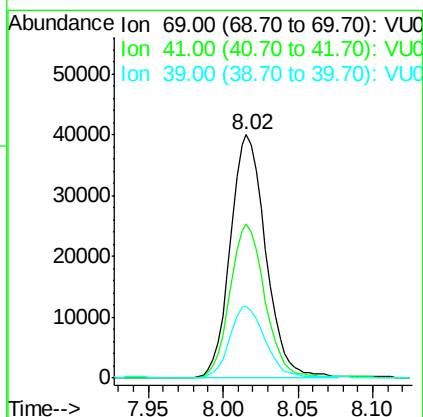
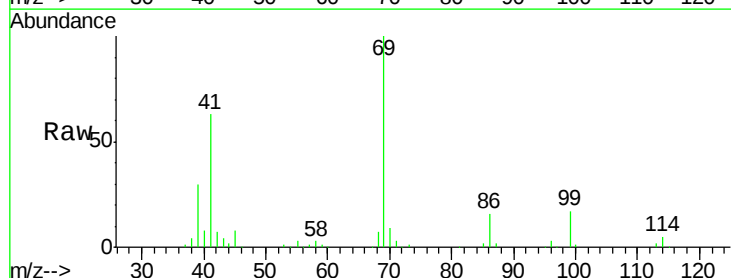
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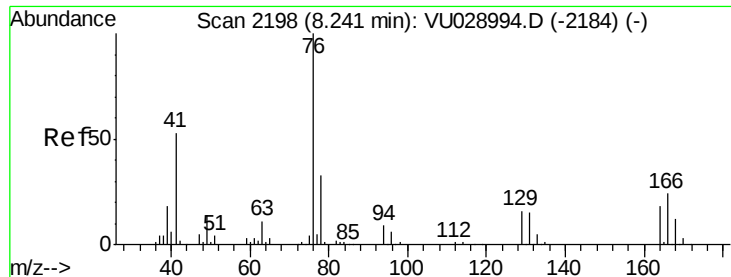
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#56
Ethyl methacrylate
Concen: 32.334 ug/l
RT: 8.02 min Scan# 2128
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion:	69	Resp:	66167
Ion	Ratio	Lower	Upper
69	100		
41	62.5	47.5	71.3
39	29.9	22.5	33.7





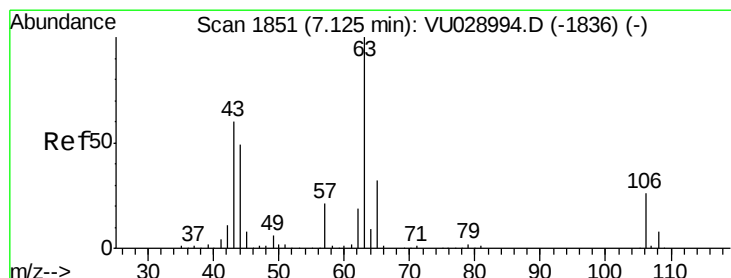
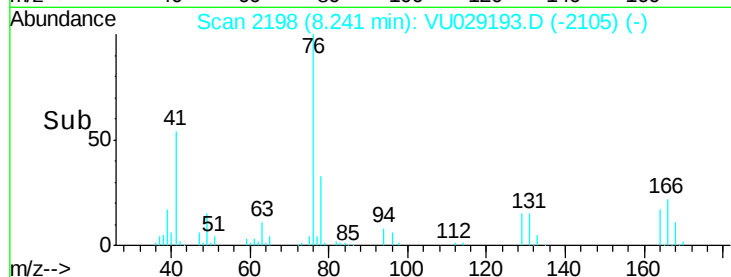
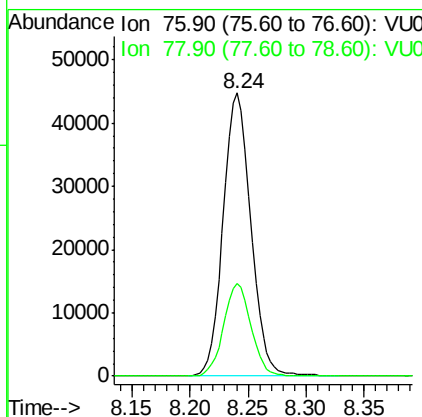
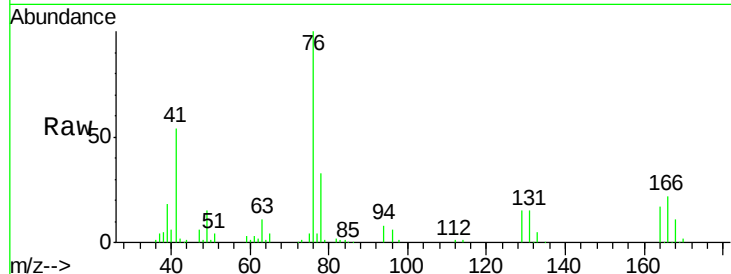
#57
 1,3-Dichloropropane
 Concen: 32.563 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 74010
 Ion Ratio Lower Upper
 76 100
 78 32.1 26.0 39.0

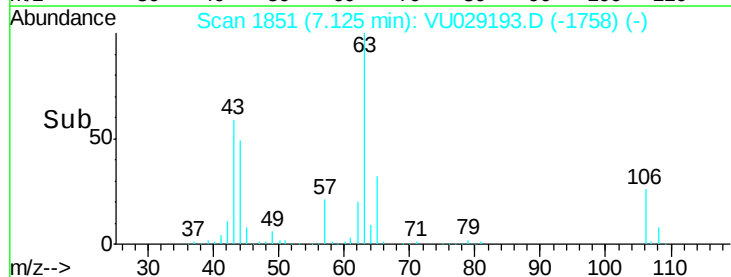
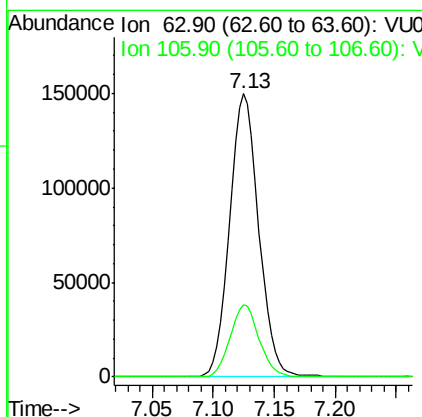
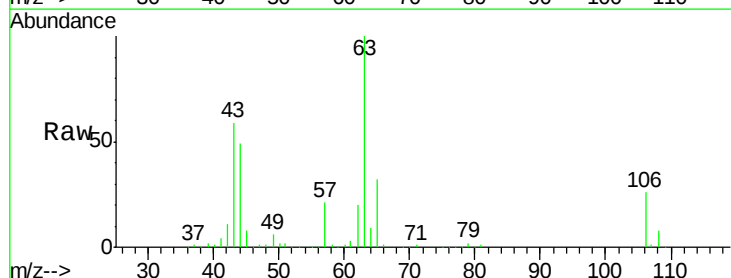
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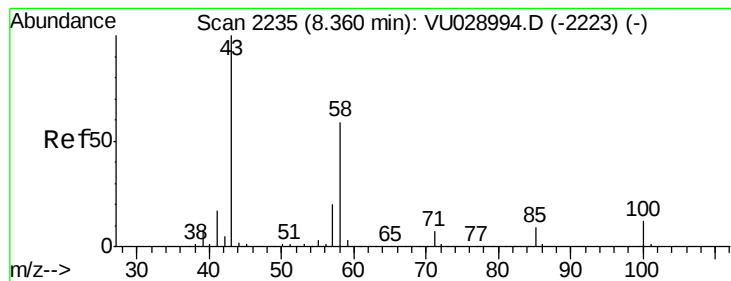
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 1/16/2019 9:42:16 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 276.875 ug/l
 RT: 7.13 min Scan# 1851
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Tgt Ion: 63 Resp: 249176
 Ion Ratio Lower Upper
 63 100
 106 25.3 20.6 31.0





#59

2-Hexanone

Concen: 175.764 ug/l

RT: 8.36 min Scan# 2235

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 276055

Ion Ratio Lower Upper

43 100

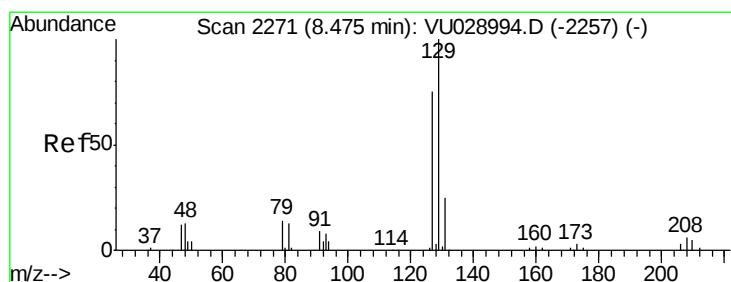
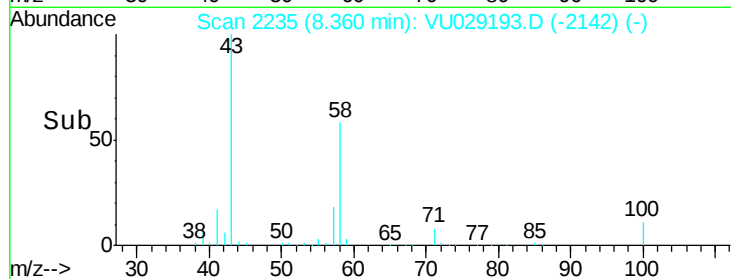
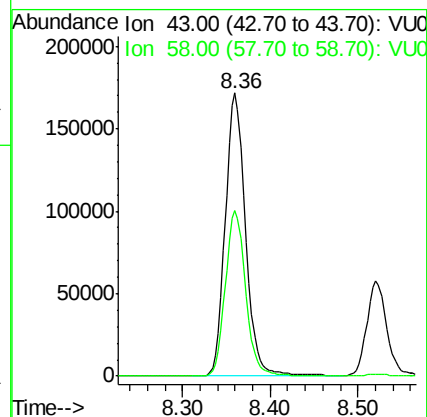
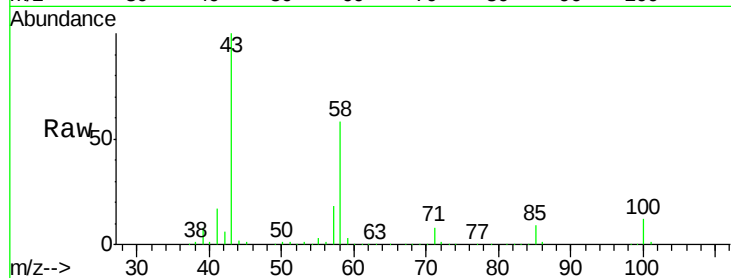
58 58.7 29.8 89.4

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#60

Dibromochloromethane

Concen: 32.601 ug/l

RT: 8.48 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VU029193.D

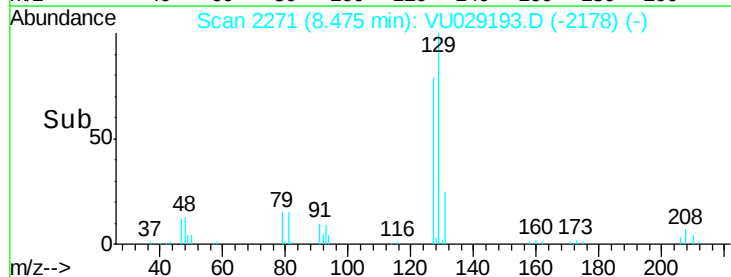
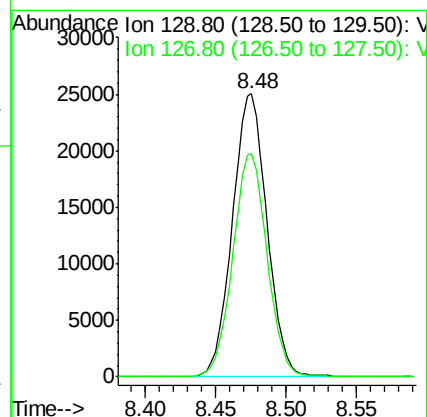
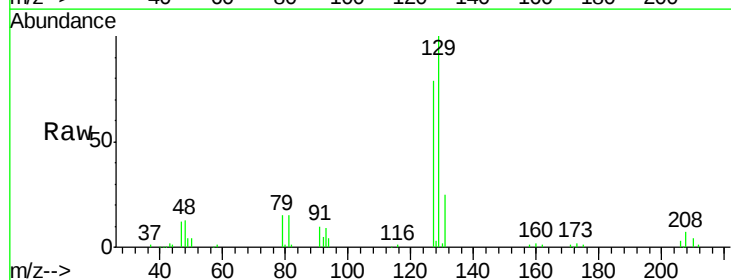
Acq: 15 Jan 2019 18:21

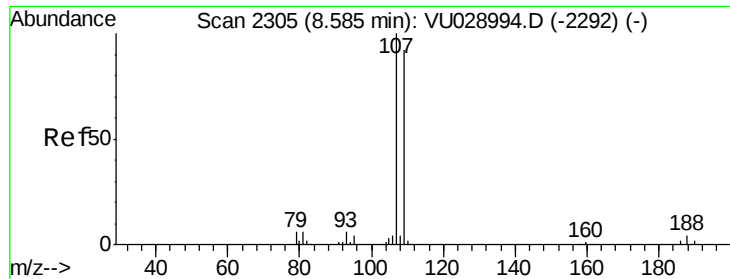
Tgt Ion: 129 Resp: 42902

Ion Ratio Lower Upper

129 100

127 78.4 38.0 114.0





#61

1,2-Dibromoethane

Concen: 32.301 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion:107 Resp: 46533

Ion Ratio Lower Upper

107 100

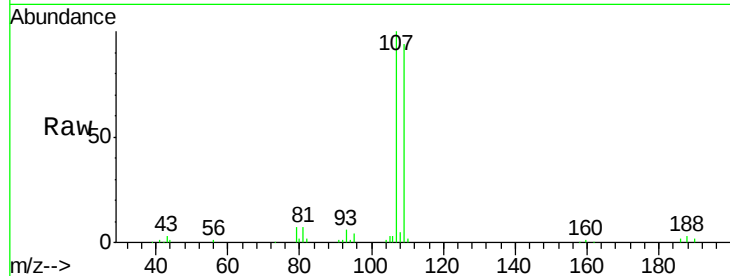
109 93.4 75.5 113.3

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.58

30000

25000

20000

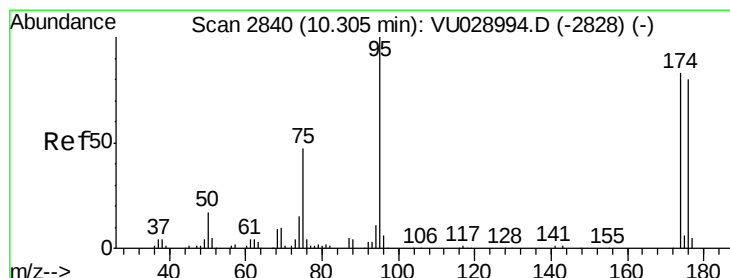
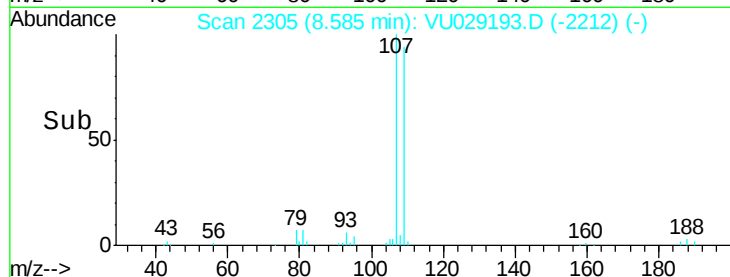
15000

10000

5000

0

Time--> 8.50 8.55 8.60 8.65



#62

4-Bromofluorobenzene

Concen: 50.920 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

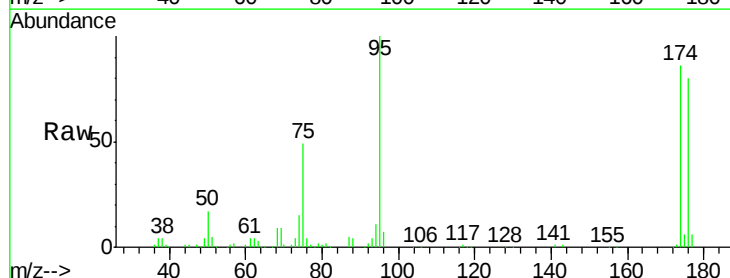
Tgt Ion: 95 Resp: 81807

Ion Ratio Lower Upper

95 100

174 84.2 0.0 170.6

176 79.9 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

10.30

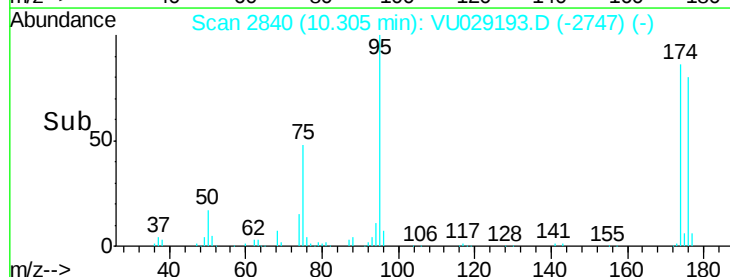
60000

40000

20000

0

Time--> 10.30 10.40





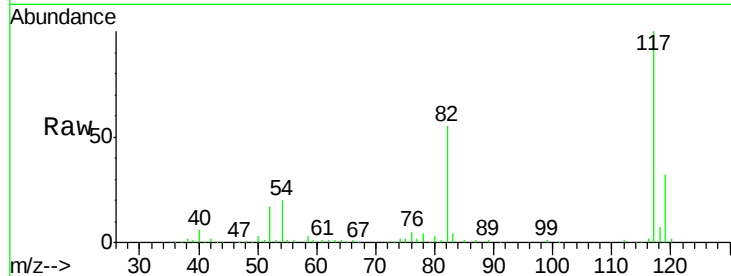
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.4	43.9	65.9
119	32.2	26.0	39.0

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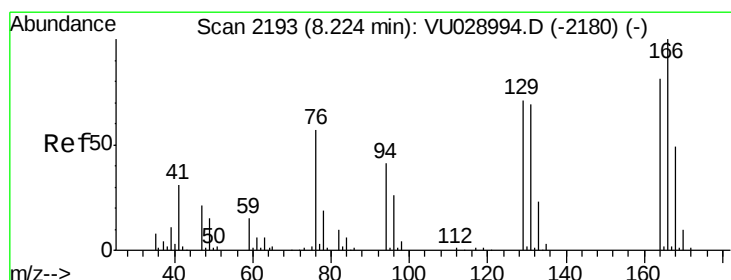
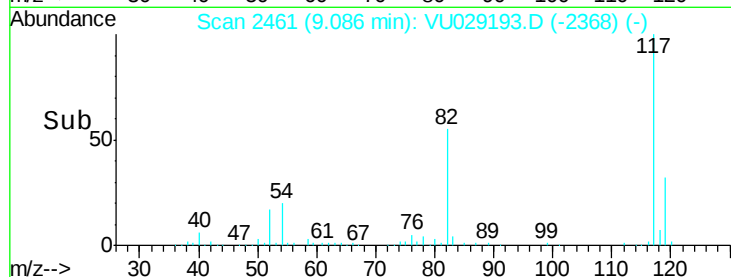
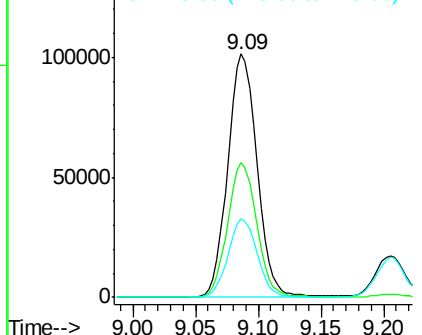


Abundance

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: 29.696 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.3	99.4	149.0
129	87.7	70.5	105.7
131	87.0	69.0	103.6

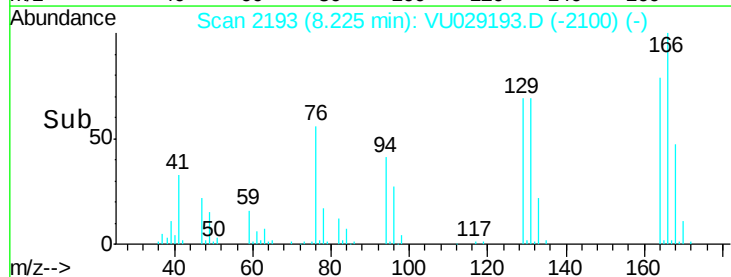
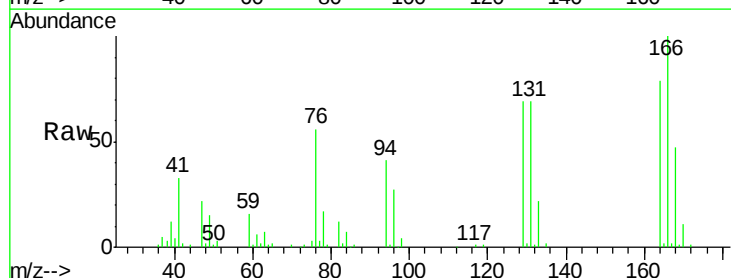
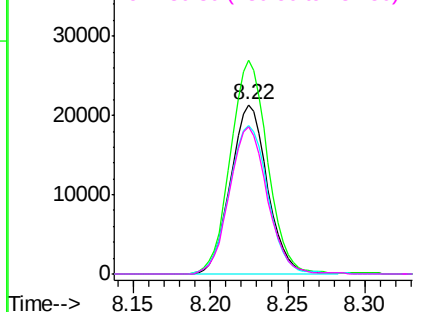
Abundance

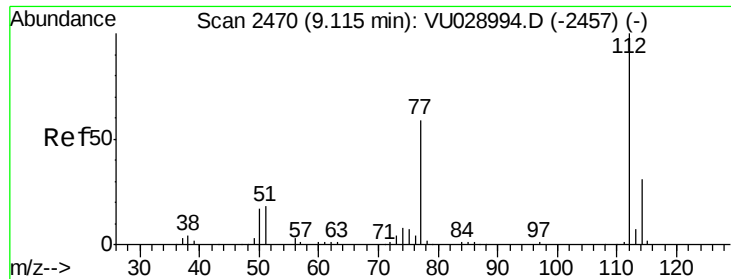
Ion 163.80 (163.50 to 164.50): V

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: 30.465 ug/l

RT: 9.12 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion:112 Resp: 112730

Ion Ratio Lower Upper

112 100

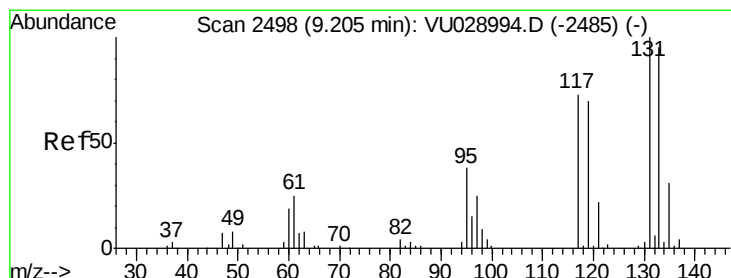
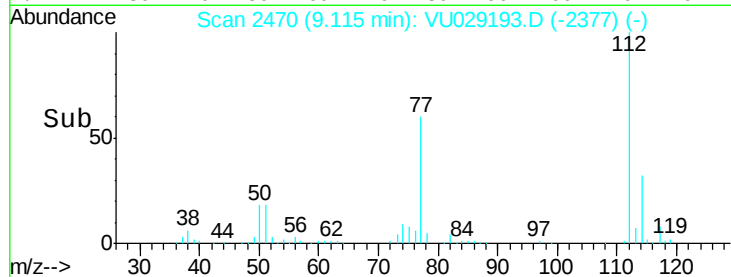
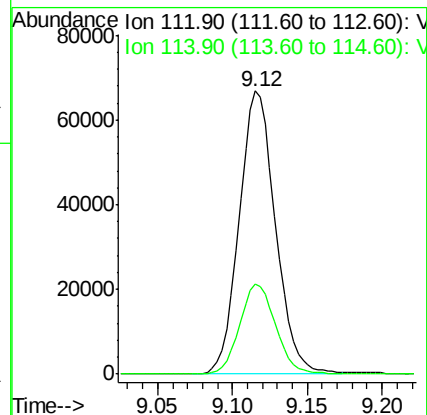
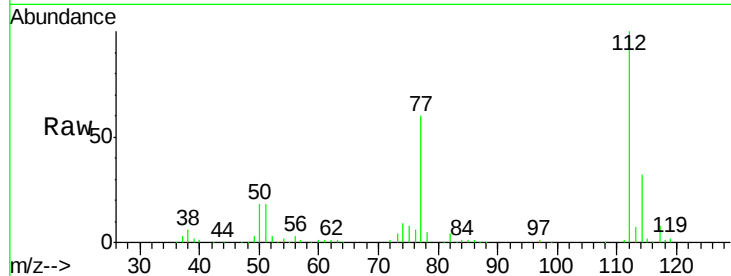
114 31.6 25.0 37.6

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#66

1,1,1,2-Tetrachloroethane

Concen: 32.055 ug/l

RT: 9.21 min Scan# 2498

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

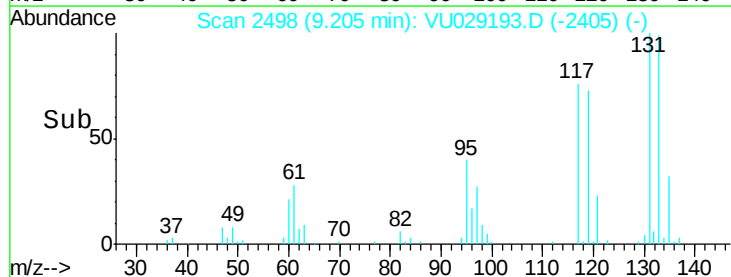
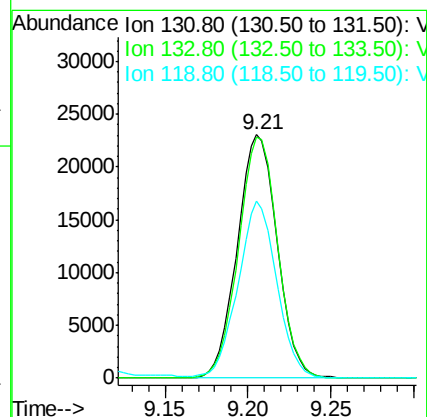
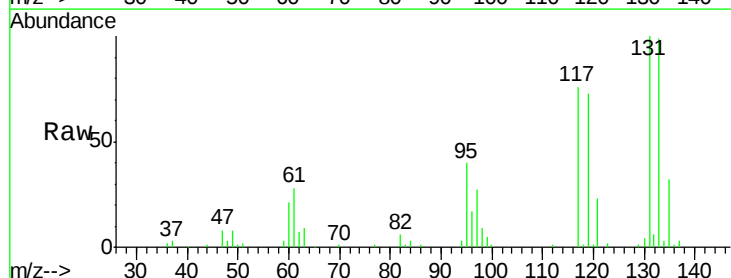
Tgt Ion:131 Resp: 38493

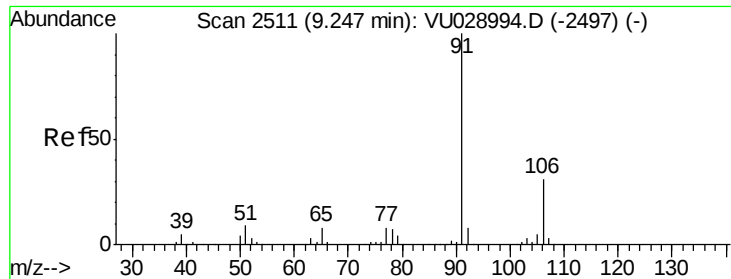
Ion Ratio Lower Upper

131 100

133 97.4 48.2 144.6

119 70.7 35.4 106.3





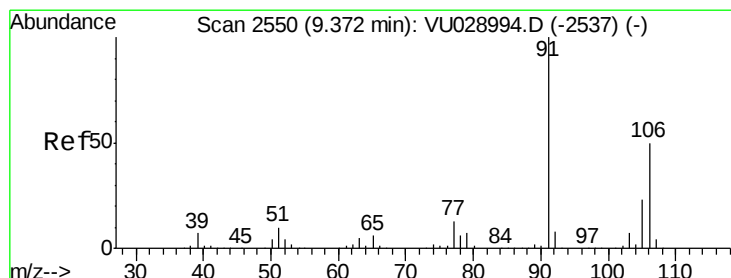
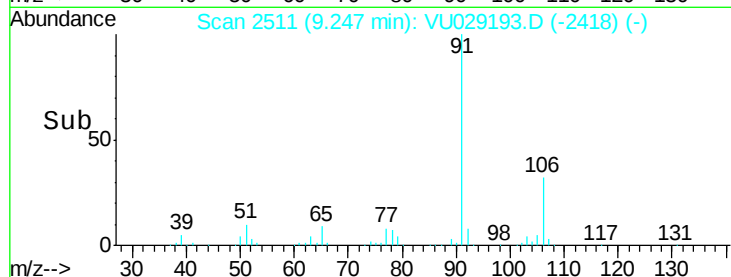
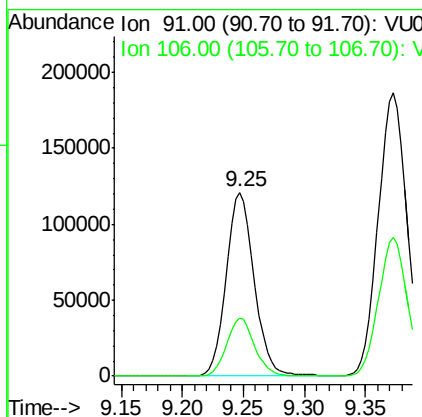
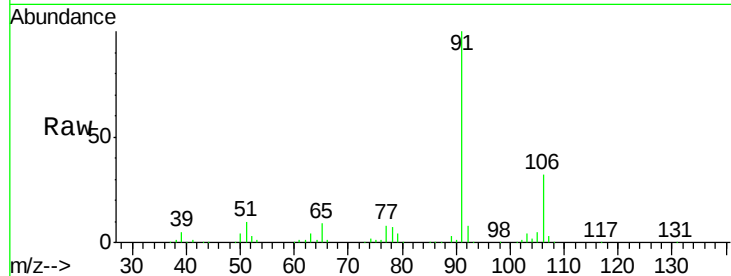
#67
Ethyl Benzene
Concen: 31.636 ug/l
RT: 9.25 min Scan# 2511
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 195439
Ion Ratio Lower Upper
91 100
106 31.7 25.0 37.4

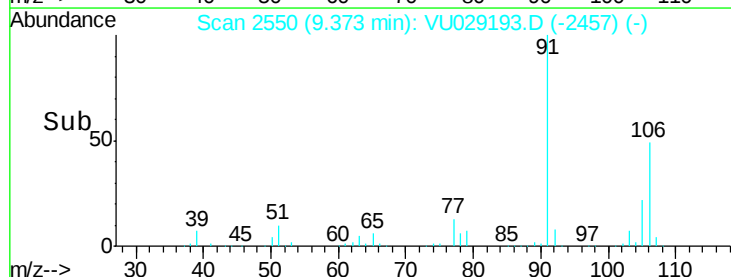
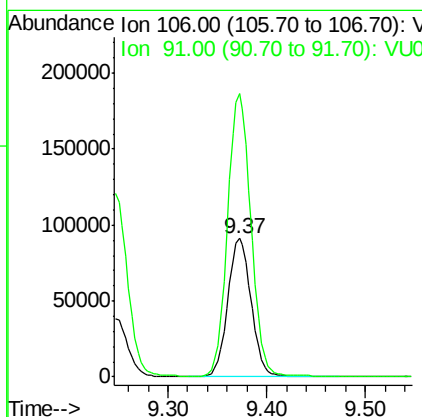
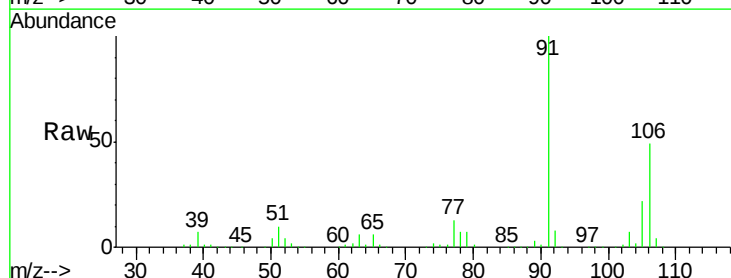
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#68
m/p-Xylenes
Concen: 62.579 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion: 106 Resp: 150214
Ion Ratio Lower Upper
106 100
91 205.8 161.7 242.5





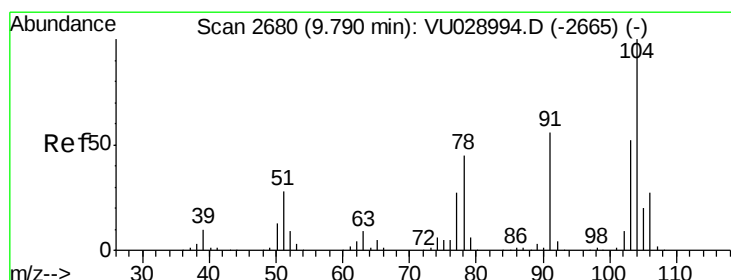
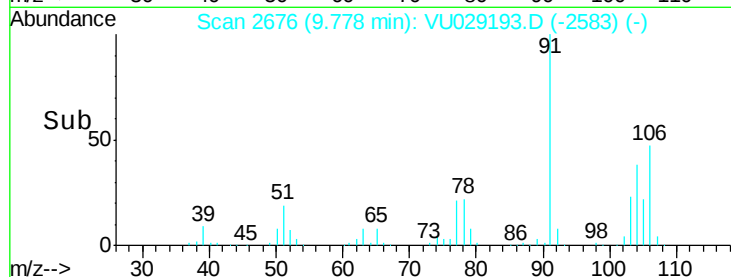
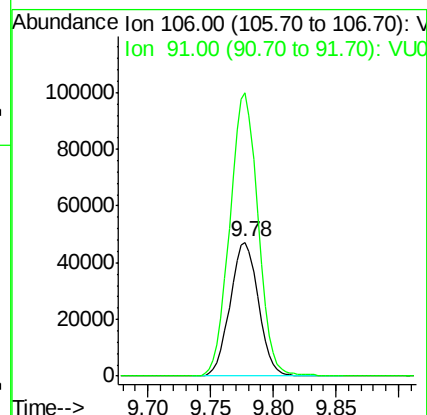
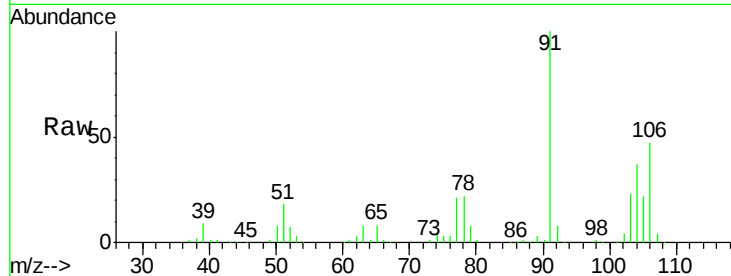
#69
o-Xylene
Concen: 32.034 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 74091
Ion Ratio Lower Upper
106 100
91 210.8 106.1 318.3

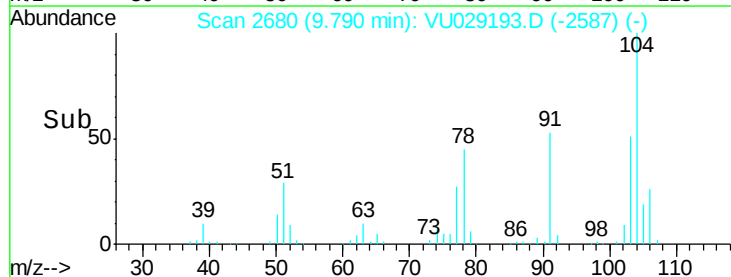
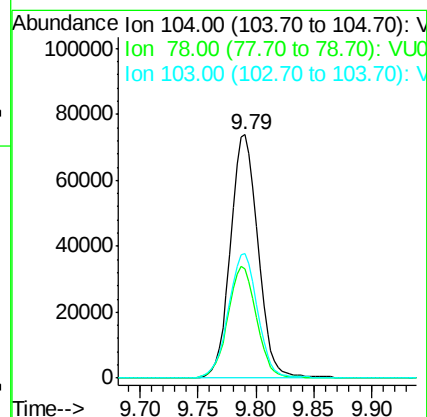
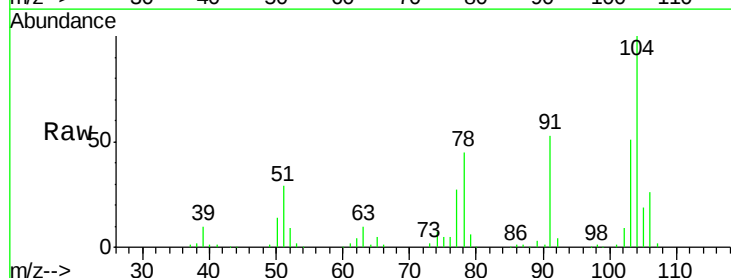
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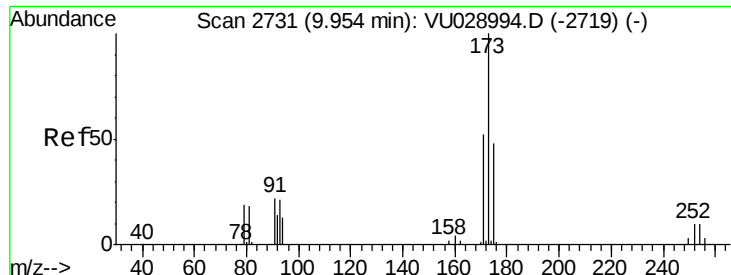
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#70
Styrene
Concen: 31.999 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion:104 Resp: 121325
Ion Ratio Lower Upper
104 100
78 47.9 38.6 58.0
103 54.5 44.5 66.7





#71

Bromoform

Concen: 32.315 ug/l

RT: 9.95 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

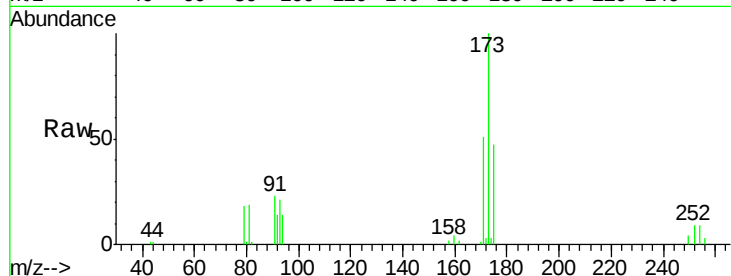
ClientSampleId :

VSTDCCC050EC

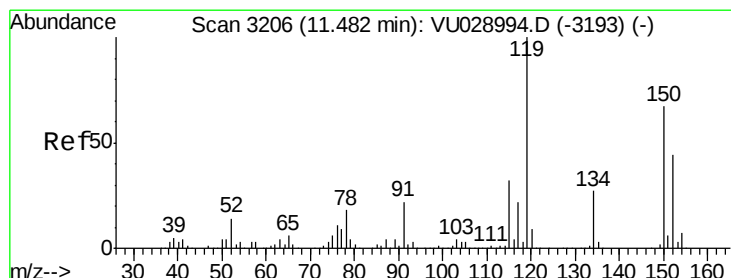
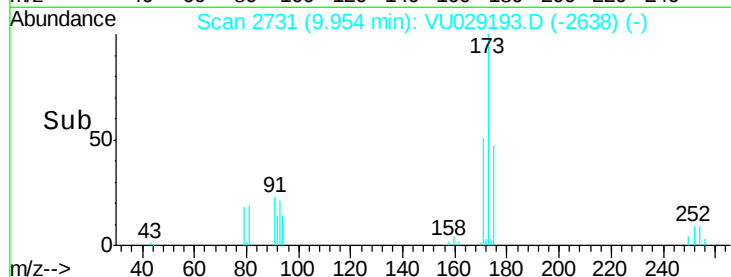
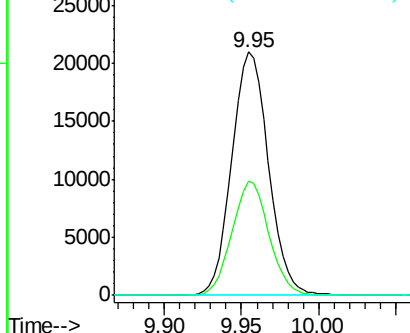
Tot Ion:	173	Resp:	34552
Ion Ratio	Lower	Upper	
173	100		
175	46.9	23.8	71.2
254	0.0	0.0	0.0

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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

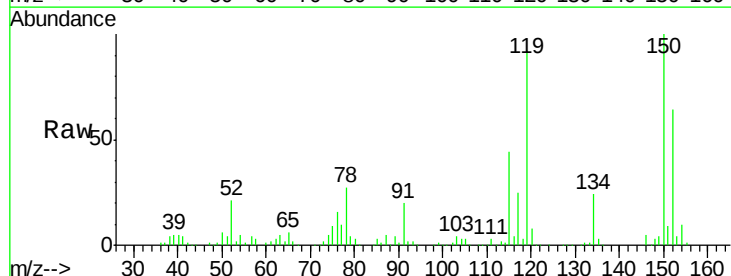
RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

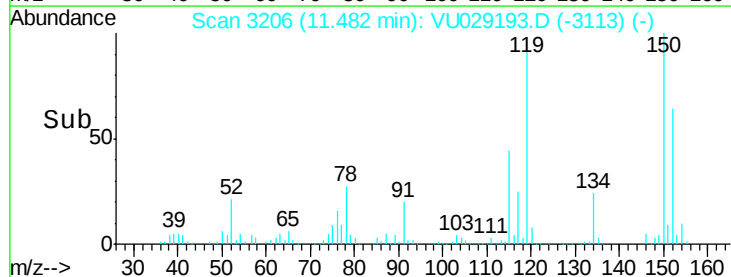
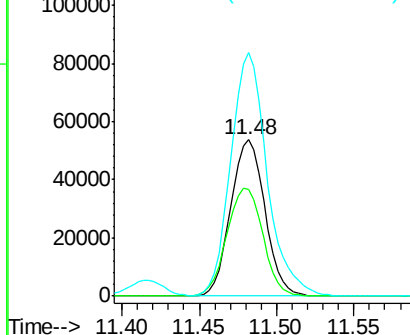
Lab File: VU029193.D

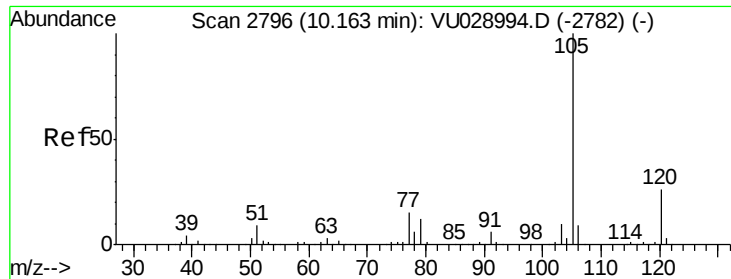
Acq: 15 Jan 2019 18:21

Tgt Ion:	152	Resp:	82531
Ion Ratio	Lower	Upper	
152	100		
115	72.7	40.1	120.3
150	165.6	0.0	345.2



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: 30.911 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 105 Resp: 188826

Ion Ratio Lower Upper

105 100

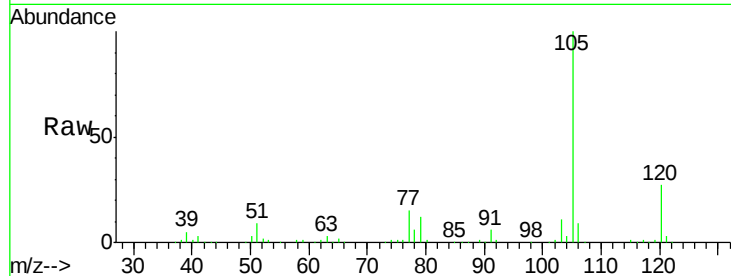
120 26.7 13.2 39.5

Manual Integrations

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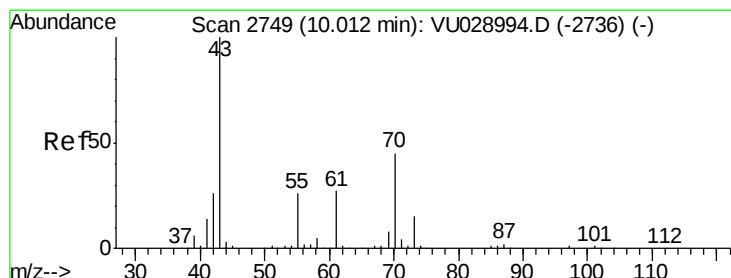
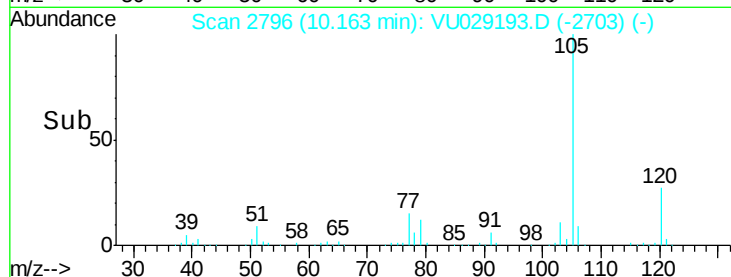
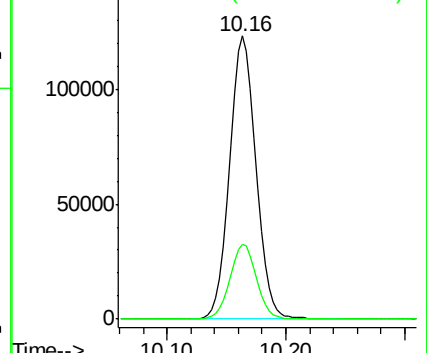
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 33.322 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Tgt Ion: 43 Resp: 87716

Ion Ratio Lower Upper

43 100

70 44.4 36.3 54.5

55 25.7 20.5 30.7

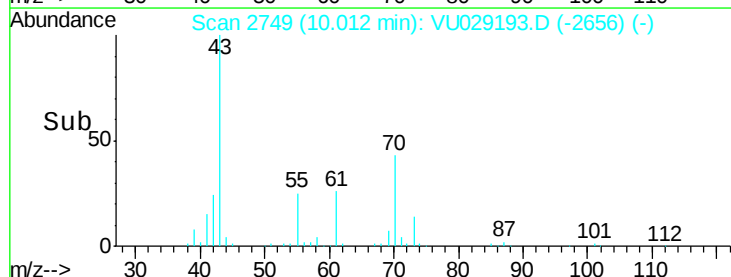
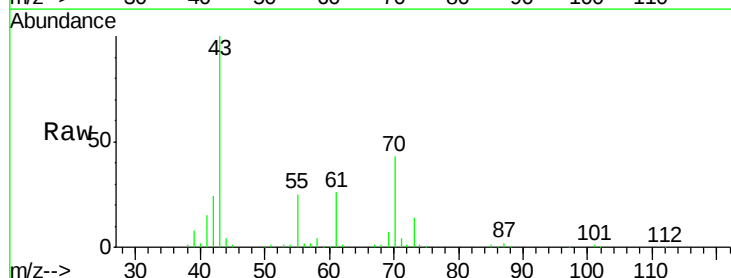
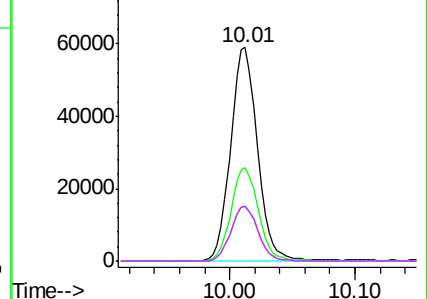
61 25.9 21.8 32.8

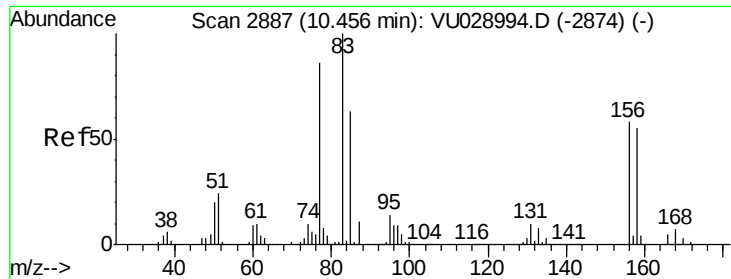
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 32.295 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 83 Resp: 79068
Ion Ratio Lower Upper

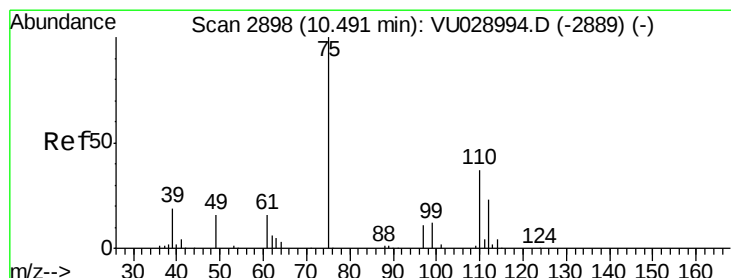
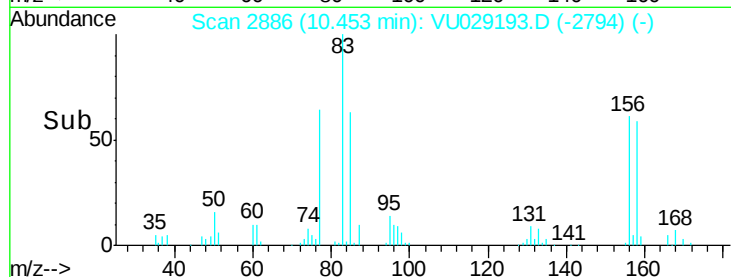
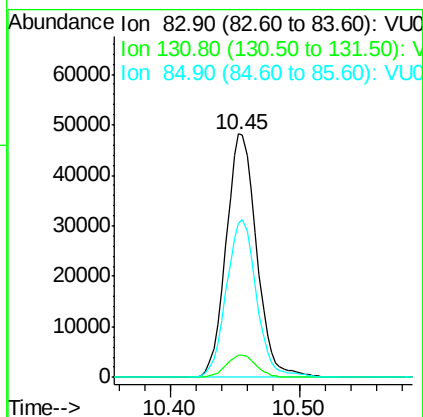
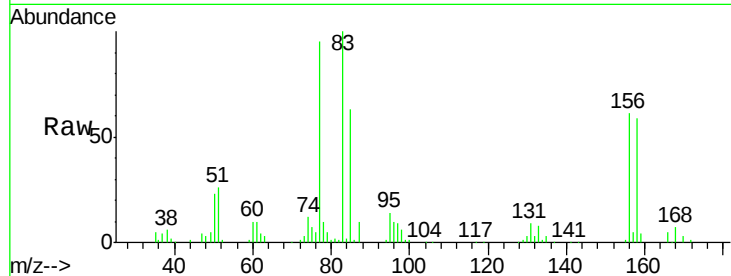
83 100

131 8.9 4.7 14.1

85 64.1 32.0 96.2

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#76

1,2,3-Trichloropropane

Concen: 33.195 ug/l m

RT: 10.49 min Scan# 2898

Delta R.T. 0.00 min

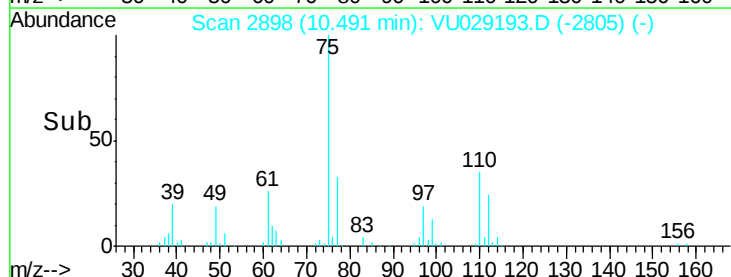
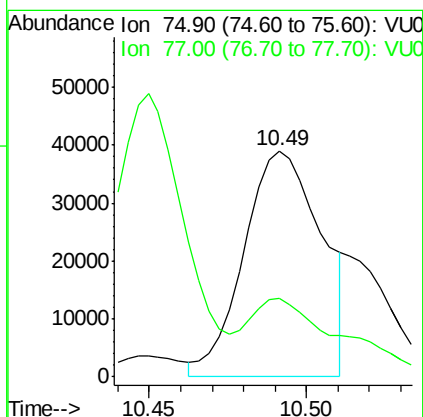
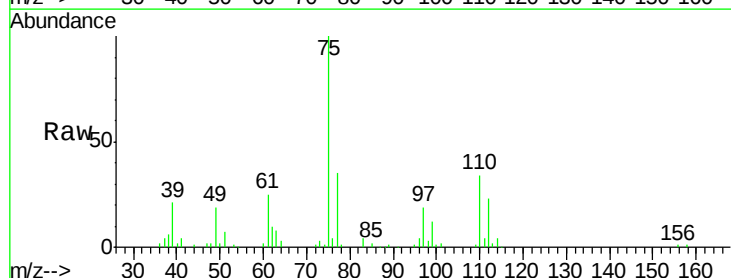
Lab File: VU029193.D

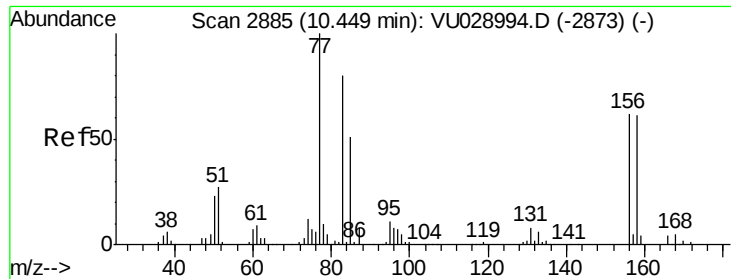
Acq: 15 Jan 2019 18:21

Tgt Ion: 75 Resp: 67125
Ion Ratio Lower Upper

75 100

77 42.8 20.9 62.8





#77

Bromobenzene

Concen: 30.829 ug/l

RT: 10.45 min Scan# 2885

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion:156 Resp: 49078

Ion Ratio Lower Upper

156 100

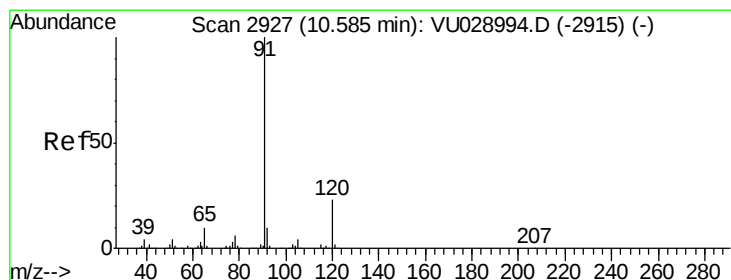
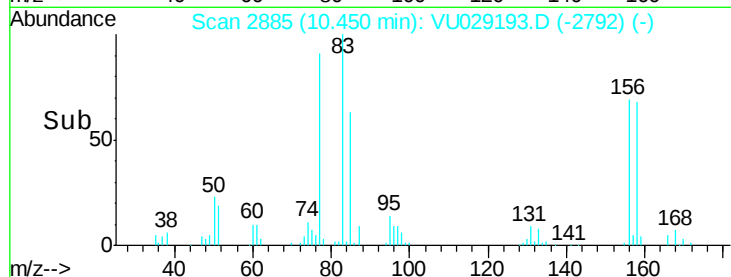
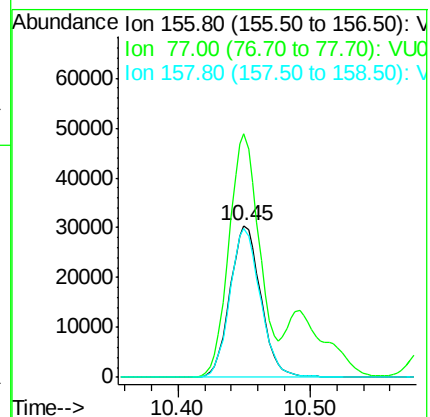
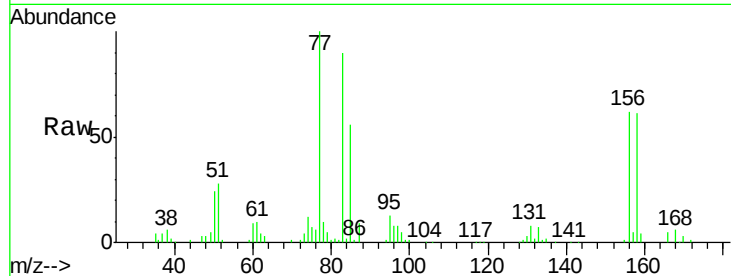
77 159.4 79.0 237.2

158 97.4 48.9 146.6

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#78

n-propylbenzene

Concen: 31.653 ug/l

RT: 10.58 min Scan# 2927

Delta R.T. 0.00 min

Lab File: VU029193.D

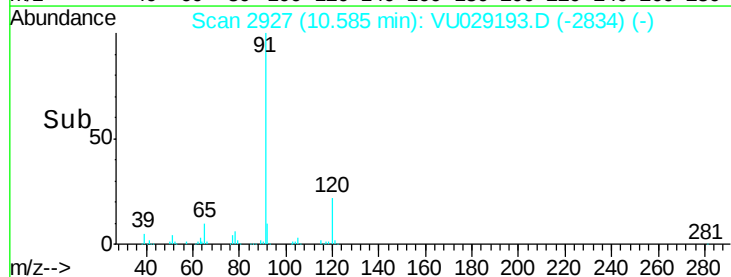
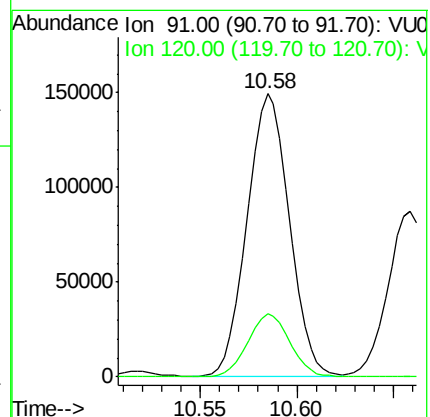
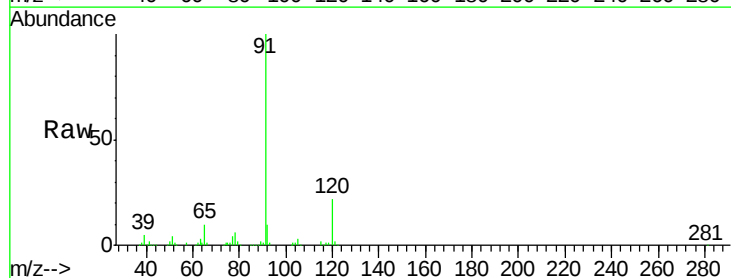
Acq: 15 Jan 2019 18:21

Tgt Ion: 91 Resp: 227871

Ion Ratio Lower Upper

91 100

120 22.1 11.3 33.9





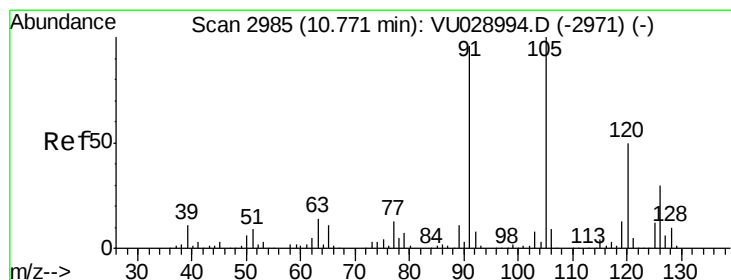
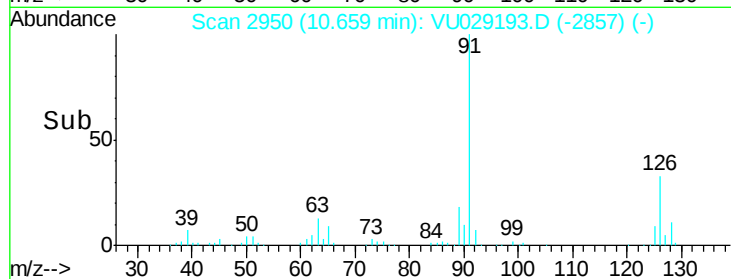
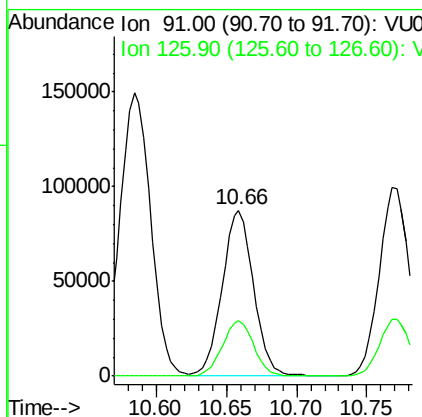
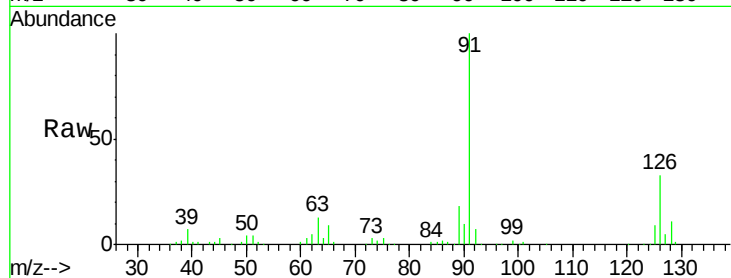
#79
 2-Chlorotoluene
 Concen: 31.169 ug/l
 RT: 10.66 min Scan# 2950
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 91 Resp: 136118
 Ion Ratio Lower Upper
 91 100
 126 33.2 16.8 50.4

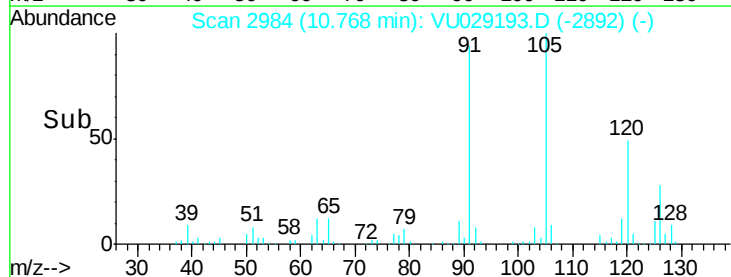
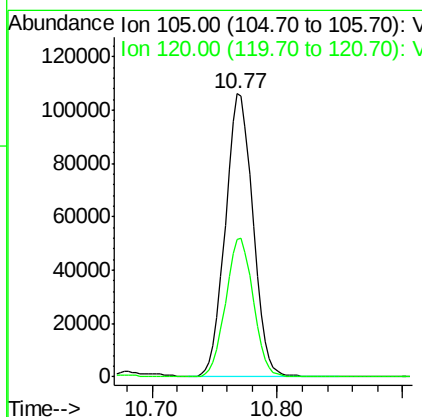
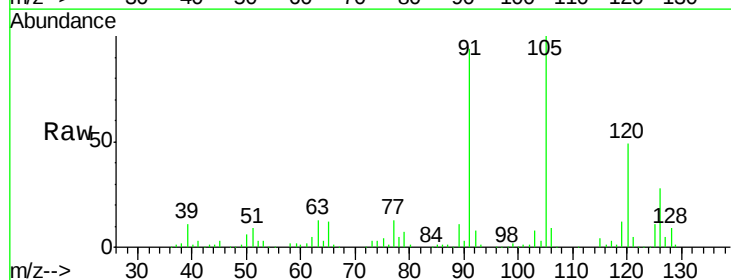
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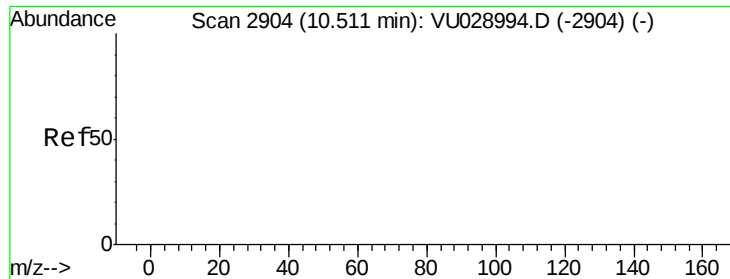
MMDadoda
 1/16/2019 9:42:16 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 31.801 ug/l
 RT: 10.77 min Scan# 2984
 Delta R.T. -0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Tgt Ion: 105 Resp: 162226
 Ion Ratio Lower Upper
 105 100
 120 49.0 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 26.988 ug/l m

RT: 10.51 min Scan# 2904

Delta R.T. 0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

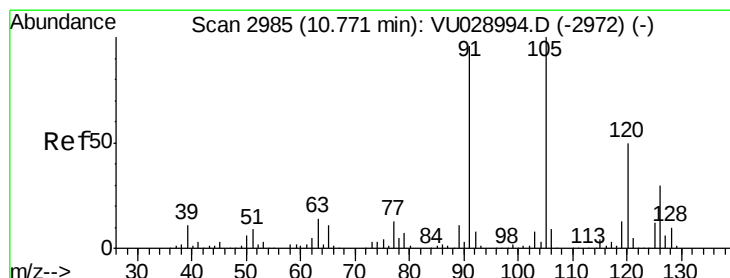
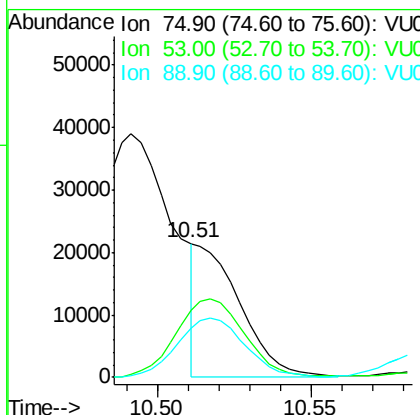
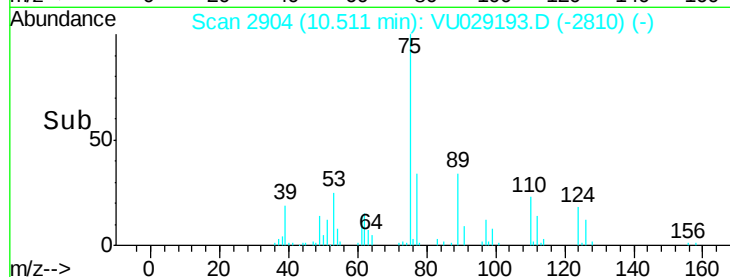
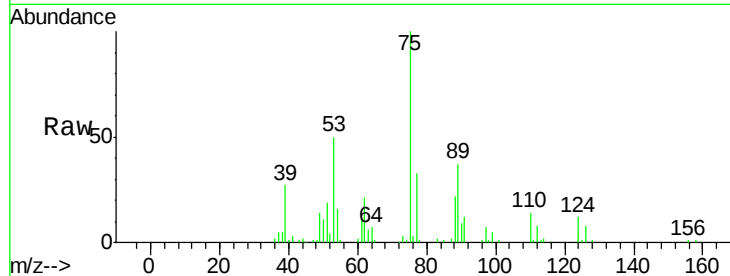
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion: 75 Resp: 21160

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: 30.439 ug/l

RT: 10.77 min Scan# 2984

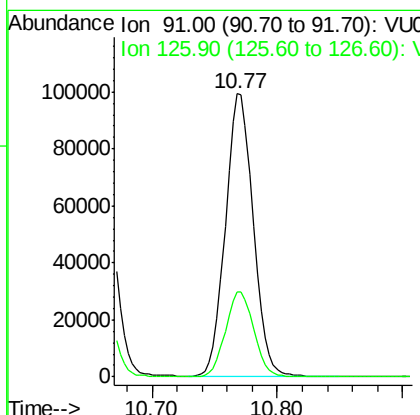
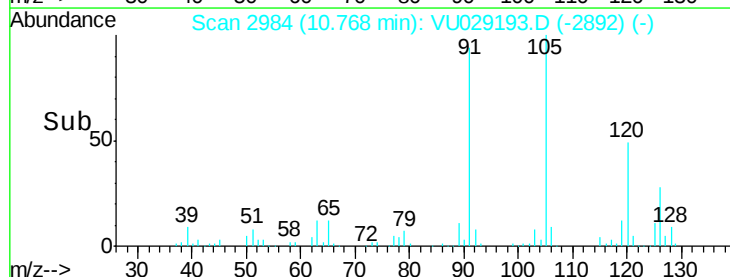
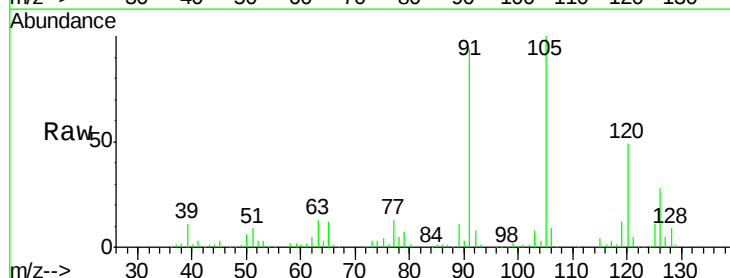
Delta R.T. -0.00 min

Lab File: VU029193.D

Acq: 15 Jan 2019 18:21

Tgt Ion: 91 Resp: 152424

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.5	46.5





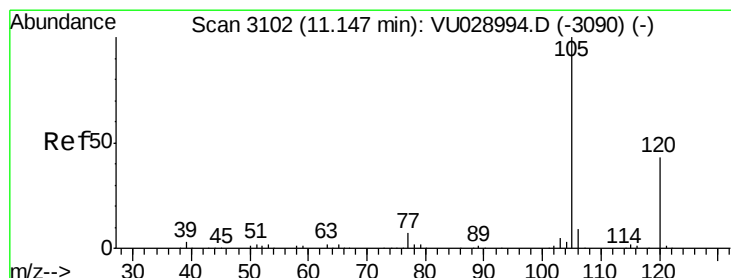
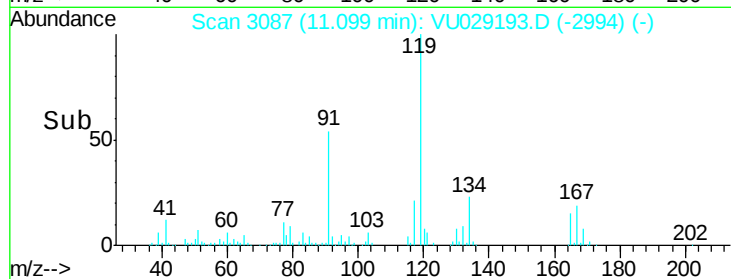
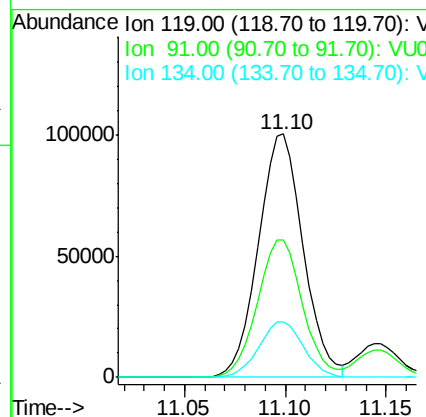
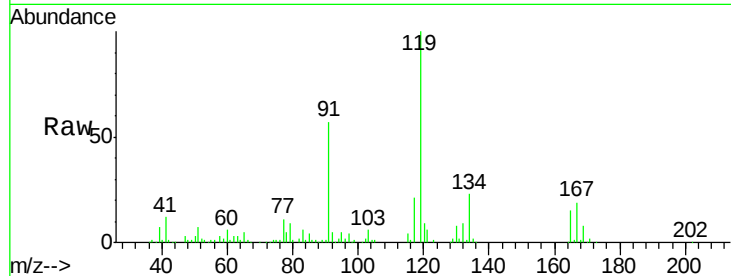
#83
 tert-Butylbenzene
 Concen: 30.968 ug/l
 RT: 11.10 min Scan# 3087
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100	155707		
91	56.5	28.2	84.6	
134	22.9	11.3	33.8	

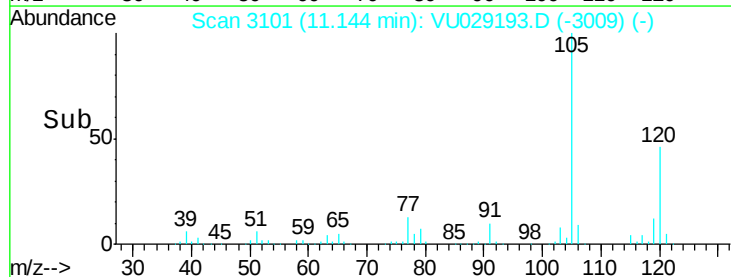
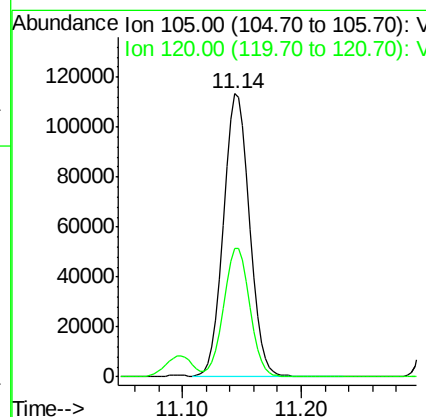
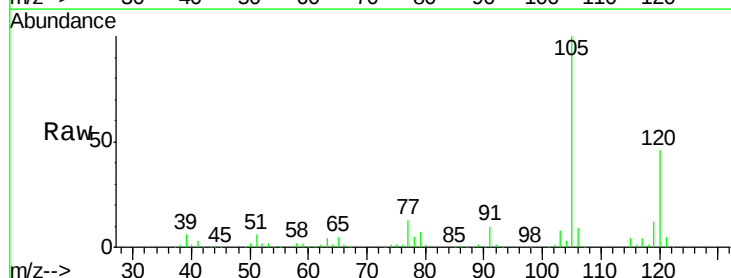
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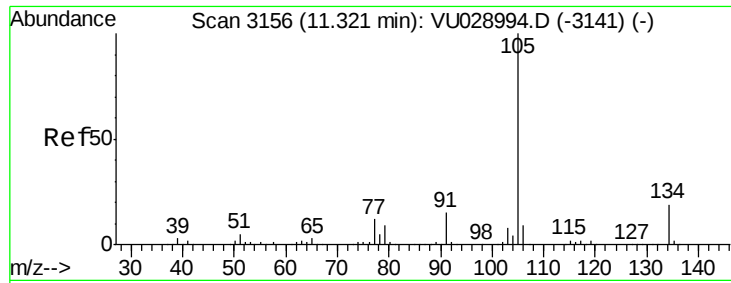
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#84
 1,2,4-Trimethylbenzene
 Concen: 33.884 ug/l
 RT: 11.14 min Scan# 3101
 Delta R.T. -0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	172576		
120	45.5	23.1	69.3	





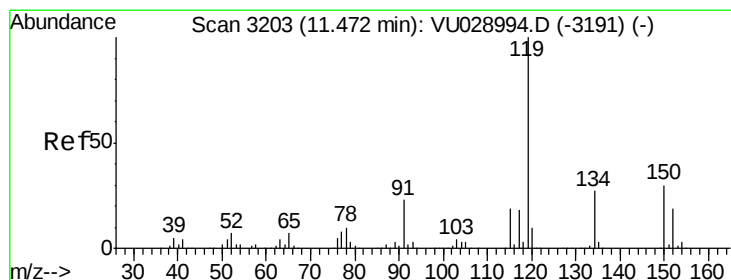
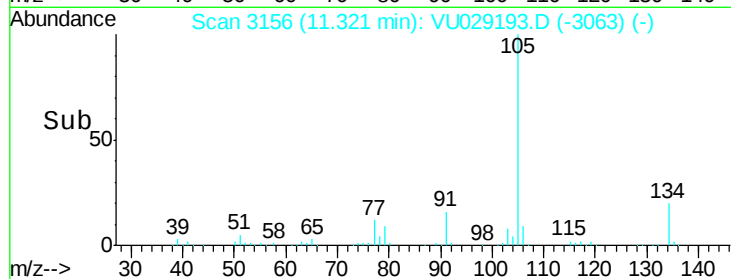
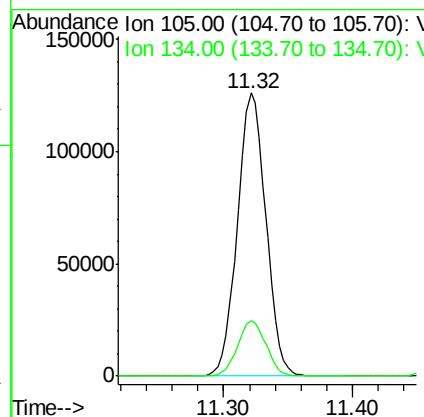
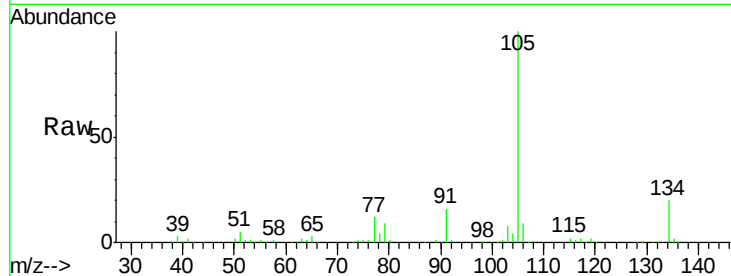
#85
 sec-Butylbenzene
 Concen: 31.798 ug/l
 RT: 11.32 min Scan# 3156
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
105	100	193358		
134	19.5	9.7	29.1	

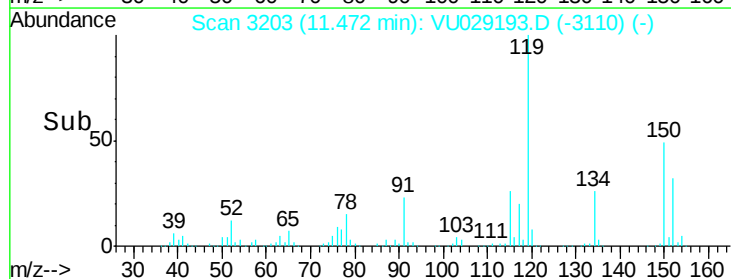
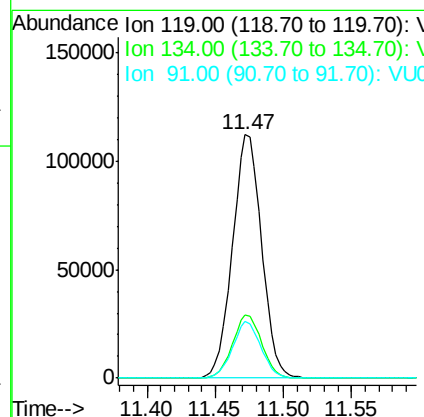
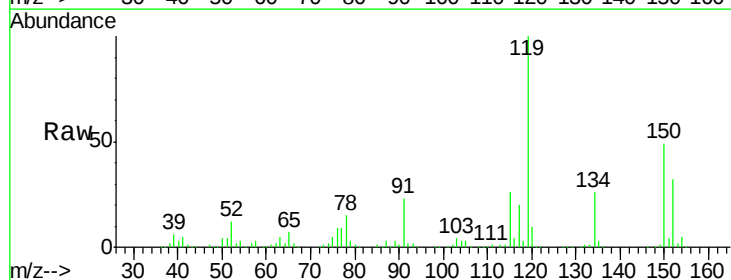
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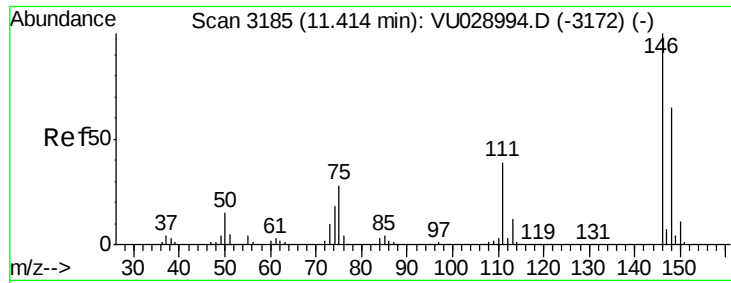
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#86
 p-Isopropyltoluene
 Concen: 31.975 ug/l
 RT: 11.47 min Scan# 3203
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	165681		
134	26.0	13.5	40.4	
91	22.8	11.3	33.8	





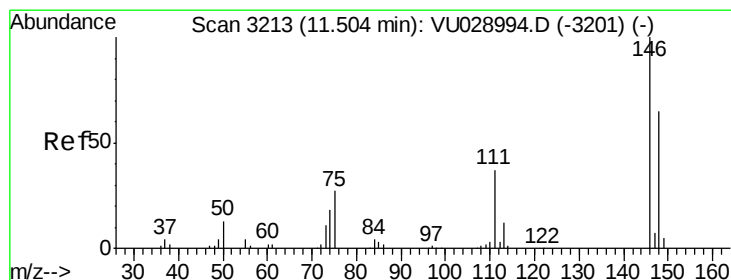
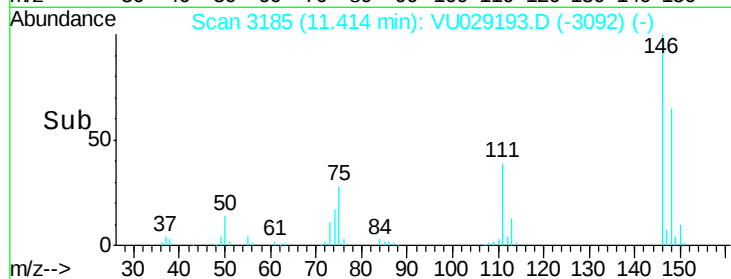
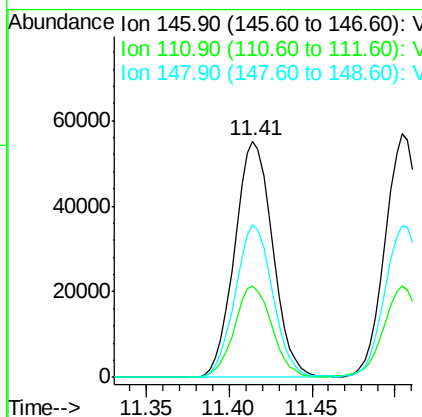
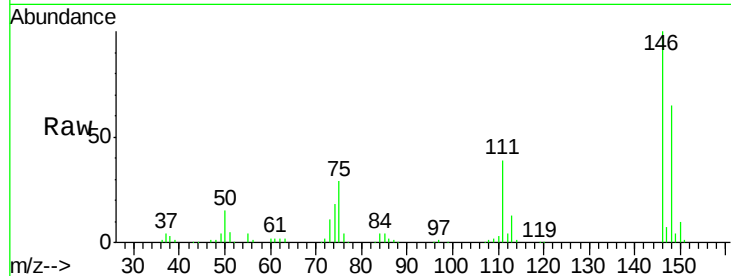
#87
 1,3-Dichlorobenzene
 Concen: 30.175 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.3	57.8
148	63.8	32.5	97.5

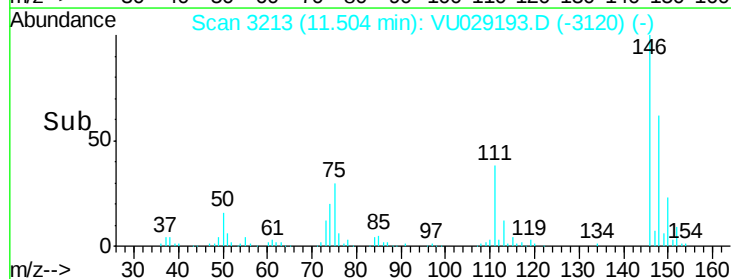
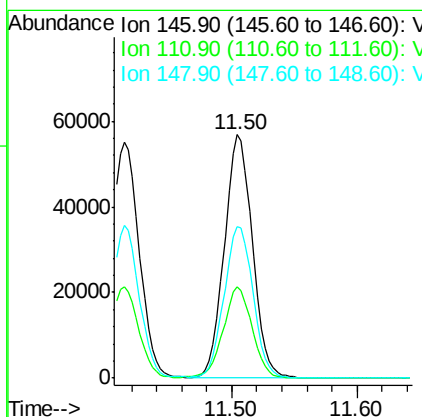
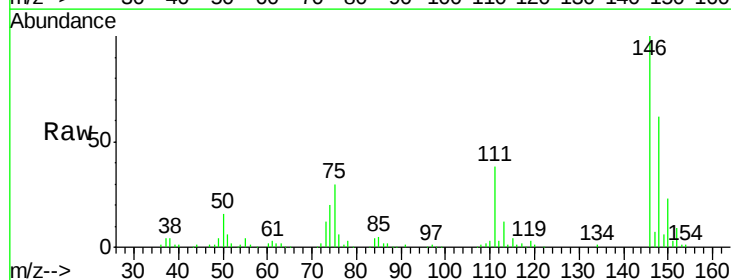
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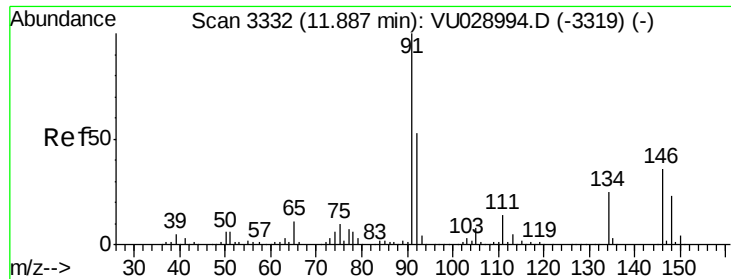
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#88
 1,4-Dichlorobenzene
 Concen: 29.322 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.1	57.3
148	64.2	32.6	98.0





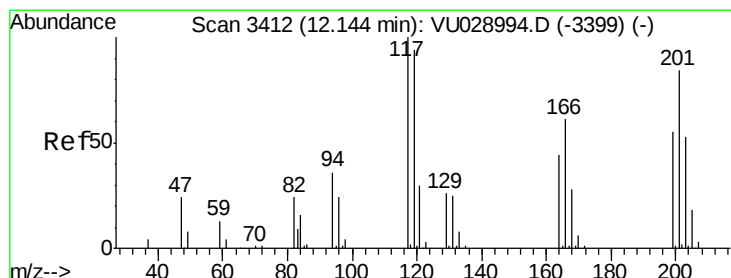
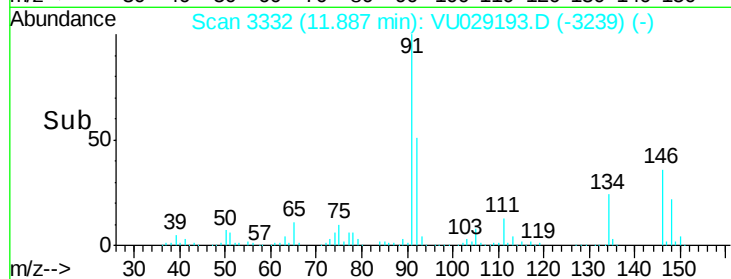
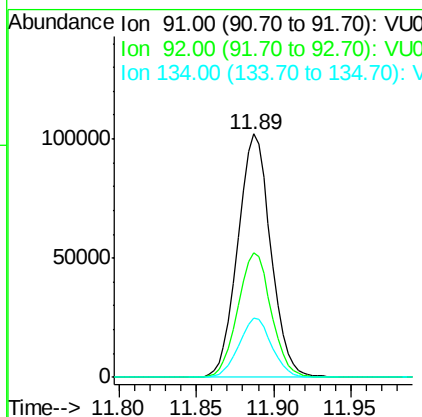
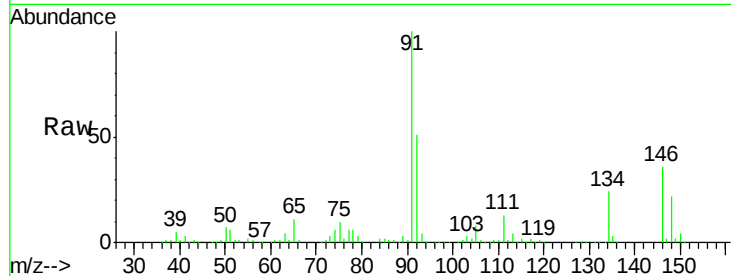
#89
n-Butylbenzene
Concen: 32.744 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.2	78.5
134	24.3	12.6	37.6

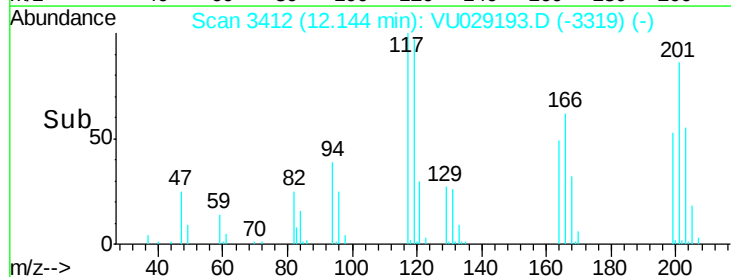
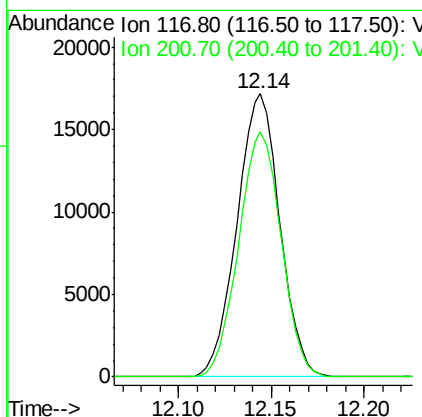
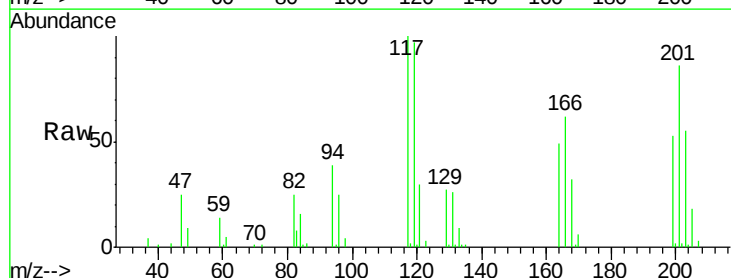
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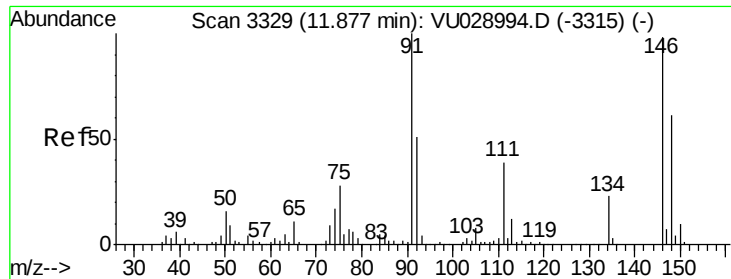
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#90
Hexachloroethane
Concen: 31.650 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.9	42.4	127.3





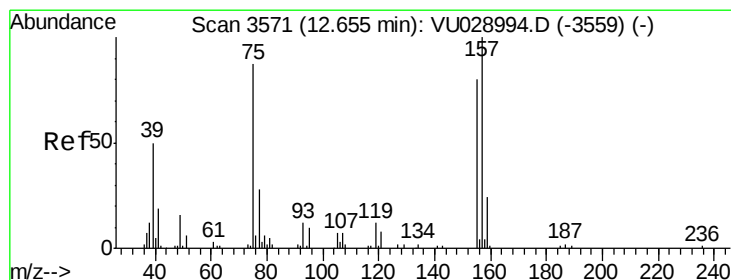
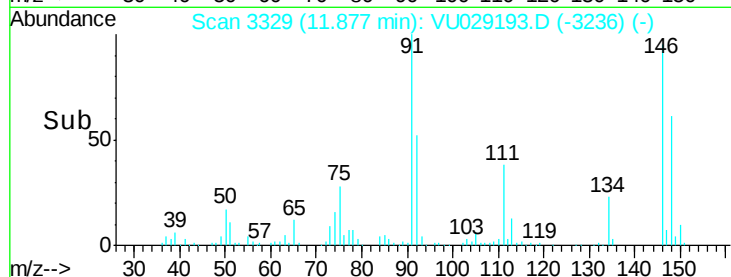
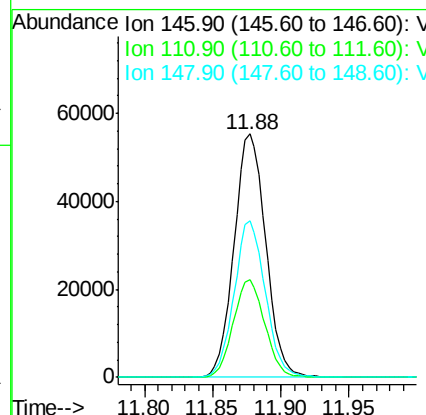
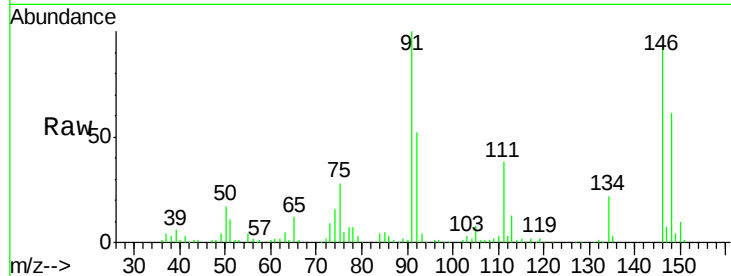
#91
 1,2-Dichlorobenzene
 Concen: 30.373 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.0	59.9
148	63.3	31.6	94.8

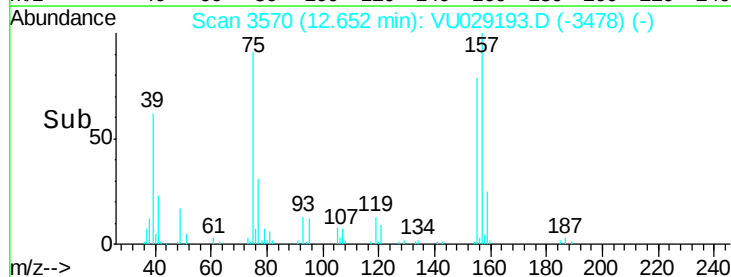
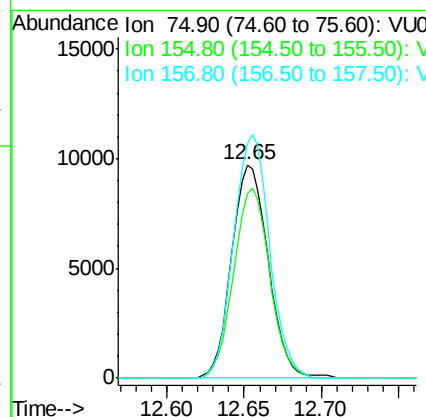
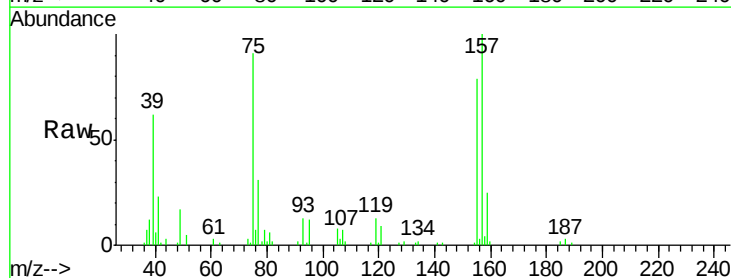
Manual Integrations
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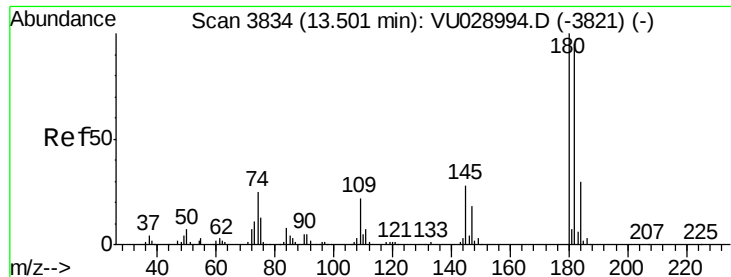
MMDadoda
 1/16/2019 9:42:16 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 33.882 ug/l
 RT: 12.65 min Scan# 3570
 Delta R.T. -0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.8	46.3	138.8
157	112.0	57.4	172.0





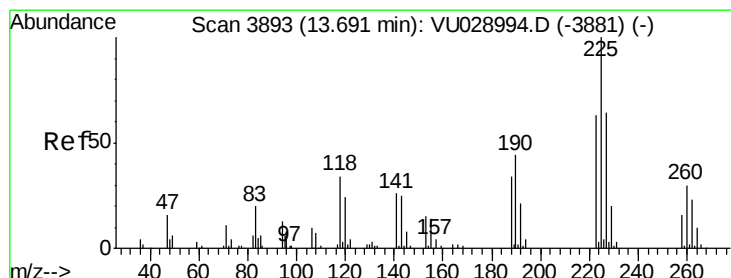
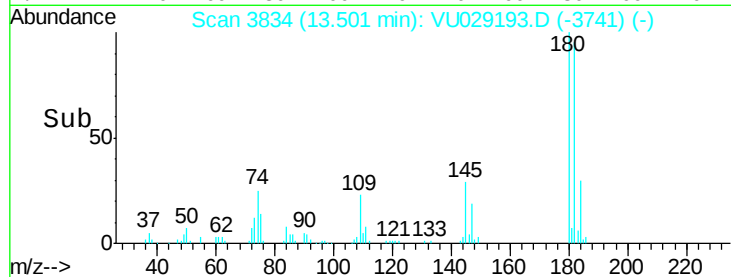
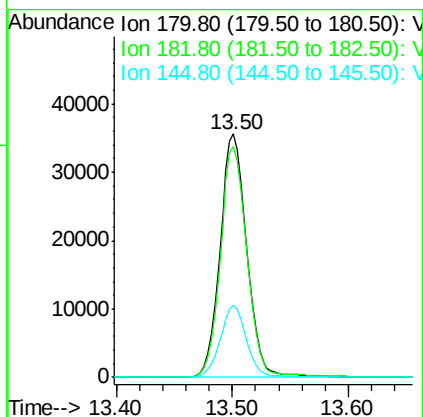
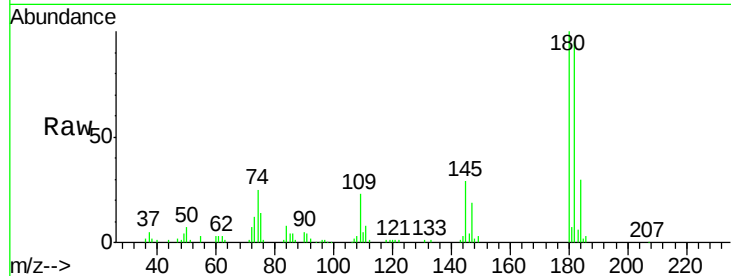
#93
 1,2,4-Trichlorobenzene
 Concen: 30.441 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.5	142.6
145	28.8	14.0	42.0

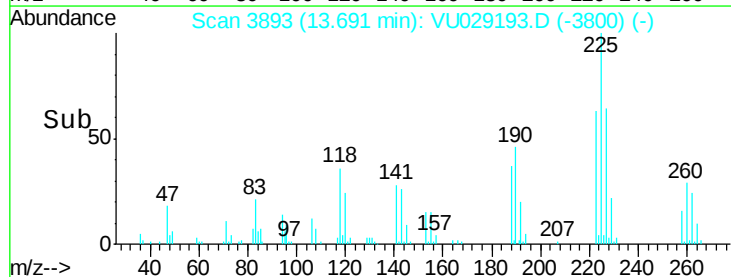
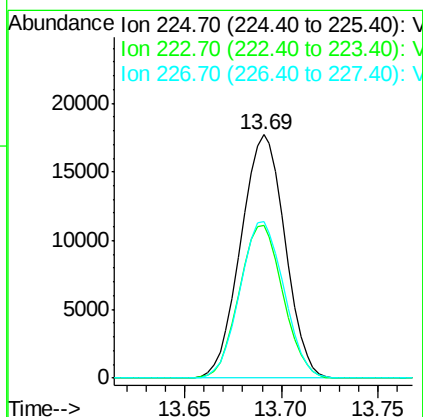
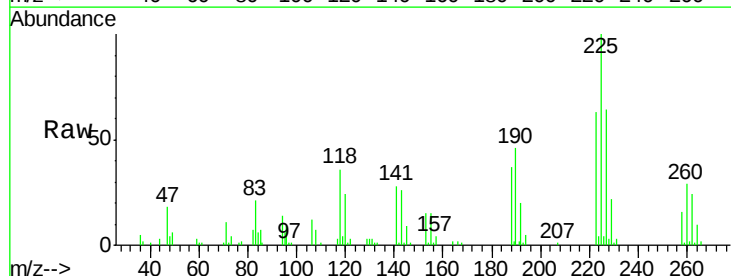
Manual Integrations
 APPROVED

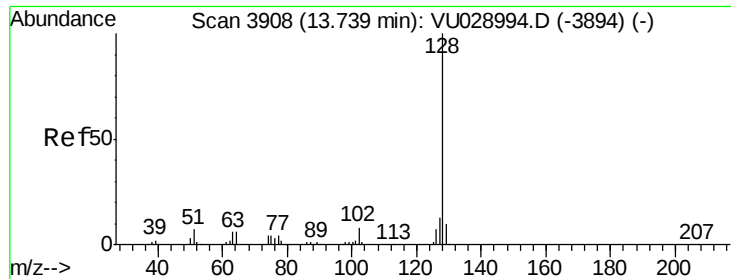
MMDadoda
 1/16/2019 9:42:16 AM



#94
 Hexachlorobutadiene
 Concen: 32.828 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU029193.D
 Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.4	94.0
227	63.8	31.9	95.5





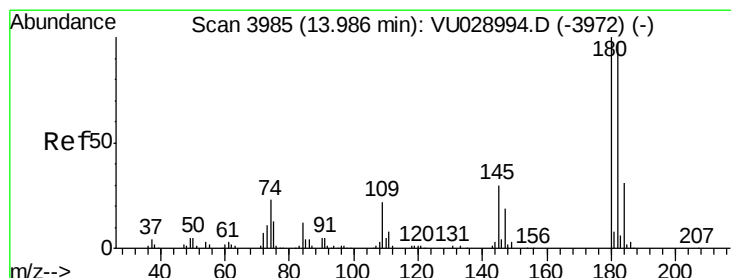
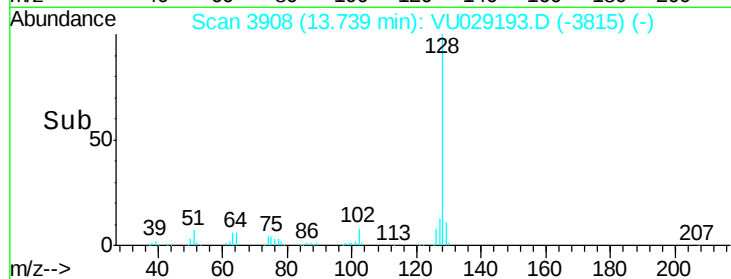
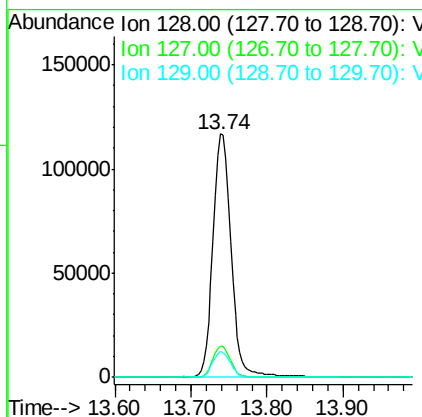
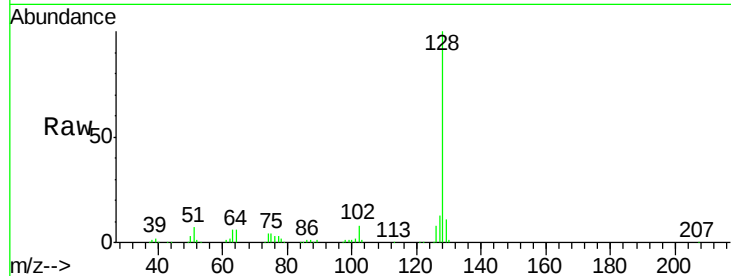
#95
Naphthalene
Concen: 30.398 ug/l
RT: 13.74 min Scan# 3908
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.5	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:42:16 AM



#96
1,2,3-Trichlorobenzene
Concen: 30.854 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU029193.D
Acq: 15 Jan 2019 18:21

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	48.1	144.3
145	30.1	14.8	44.4

